

Table 1

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ATATCTTCTTAGGTGAAGGTGAGACACCAGACCTAAATCTGTCATCTCAAGAGTAGAAGG
ATGAACCACACATACAAACCCATCACAGATGAATGCAAATAAAAAAGTCAGCTCCGAAGT
TGGGTTCTGAGCAGTGTAGATTCTACTGCTAAGGCTTGGACTACAAGC

Sequence 3358

AGGTACGCGGGGGCGCCATTTTGTAGAGAAACAAGCGGAGTTAACCGAAGAGGGGGTTCG
AGGAGAGCCGGAGTCGGGGACCCAGGAGTTTCCTGTGTCCAGCGCTGCTGGAGCCGCCTG
AGGTGCCATGTTTCAGAACAGAGTAAGACCCCTGGTAAAGAAGAACTGAAGATATTATAC
AGATAACCAGATATAGCCTAATTACAAAGAAAGCATTAACCTGCCTCTGAGGTGACTAAAG
GGGAATAATGGTGATTTTGCGCCGGGCT

Sequence 3359

TNNGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTTNGGAGTAGAATATTGATTGTCTTATATCCCATTTTCTTGAAGAGATTC
TGGCTTCTAATATATGTTCCATAAAAAAATTTATCGTCTAGTAGTGATGTCTTCATGTT
TCACCCAGCTGTCTCATAGGCATGACTAAGCATCTATTTTCATCACCTGGCTCTGGATGCC
TCCNCTCTTTACCATNGGTGAAAGGCATTTGCTGATTCCCTTTTGATATACCTGAAGTATT
GATGCTAGAGAAATCACTTCCAATATAACAGCATCGTTTGCAGATTTTCACTTCTGN

Sequence 3360

AGGTACAAGCCGTCCACTGCAGGAATGACGTGCTGTAAAAGGGATGCAGTGTCAAGTGTA
GTCATGGATGGGTGGGAAGACCAGACAAAGGCATCCAATGGGACTGACTTACCTAAACAA
ACCAGAAGGAAGTCAGAACAGTGGGAAGATCTGATAGATAAGCAGTATTCTGCAGGCAGA
TGAAGGAGCAAGCTTTGGGCCCCCAAATCTTCACCAGTGCATCCACATTACAGAGGATAA
TGCCTGAGGGAGGGGAAGATCATCTCAGGATTCTGGAACACTGGGCCCTCCCTTTCTTAT
TCCAAAAGGCTGGAGCAGTTCTGCATGTAGGCTTCTCTGGAAATGGTCTAGG

Sequence 3361

AGGTACCGGGAACCAAACCTCTCATTCCCCAGGGGCCTAAGCCCCCGTGGCCAGGCCCTT
CTCAAGTCAGGGTTCCCTGCACATTCACAGTTACGGGTGGCCCTGGGAGTAACACCTGGCA
CCCAAACAGGTCACCAGAGTCCACACATAGTCCACCTGCCCTCCCTGCGTAAGATCAGCT
CTTCCTCCTCCCGACGAATAGATCAGGGTCAATGATCCCTGCCAAGATGGCGACTGCTCC
AGCCTGCTGGTCCAACCTGTCCAGCCACAGCTGTTGCTCGAAGGCTTGAAGTTCAATGGG
ACCCTCTCCCGCTTTCTACAAACTGGTTCCTTTATTTTTATGTTTATTTATTTGGGACG

Sequence 3362

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACCCTTTATAGA
AGAAGAACAGAGAACTTTTCCATGTCTGTAAATAGCGCTGCTGTCTGCGATTGACAGG
ACGAGGAGGAGGAGGAACAGTGGTGGGGGCTCCTAGAGGTCGAAGTTCTTCAAGAGGGCG
AGGCAGAGGCAGAGGTGAATGTGGTTTCTACCAAAGAAGTTTGTATGAAGTAGAGGGTGT
TTTTGGTTCGAGGAGGTGGCAGAGAAATGCATAGATCGCAGAGCAAGAGAGAAGAGAGGCA
GAAATGAGGGCAAAACGGGAAGAGGAAGAGCGAAAGAGGCAGGAAGAAGTCCGAAGACAA
CAGGAGGAAATTCTTCGGCGACAGCAGGAAGAA

Sequence 3363

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGAAGGTTTTGTCTCTT
AATTTTCTTTGAACCACACCTCTTCTCCTTATTATAAGAAAAACCCTCTTAGGGTAAGGG
AAGCCCAAATTAAGTGTCTGAAATTTTGCAATTATTTAAACCATAATTTTGATTAC
TTCTGTCAAACAAAACACTACCATTTGGGTCTCATTTGTAGATTATTTAAAAACATGTT
TTTCCTGTTAATTATCAATGCATTTACTATCACAAGGATTNAAAAGATCACTTCAGGTG
GTGGGGATGTTTCATGAAACACCATGGGTGGGGGAGTAGGTAGTGGGGCAAGGCAGAGTG
GACAATCAGCTTAAACCTTCCTTTCA

Sequence 3364

AGGTACTCCATTCTCCAGCATTTTCTACATCTGGCAAGCTCGAAAGTGAAACCCTAGTGG
GCCATCATGCAGGTTTTGAGTTATTTACTGTTACAGATGAGGAACTGCGAAGCTACATG
GCCACAGTCAACAACGACAACAGAAGGCAACATAGTATGGCGGTTAAGAGCACCGACTCT
GAAGCCAGCCTGAATCCTAGAGCCAGAGCTGTGCAACAGCAGGTAAATGACTTATCCTGT
GCAGTTTCCTCCTTAATGGAAATAGTGCCAGGCCACAATATCGCGAGATTTACACGTAA
AGCTGGAAACAACTCCCGTCTAGAGTAAGCACTGTTTACTATTAAGCAGCATCAG

Sequence 3365

AATTGGAGCCTCCACCGCGGTGGCGGCCGTGGTGGTGAAGCTGTAGCCGCGCTCGGTAGA
GGATCTTCACCCGCGTACCCGCTAAACTGCACAGCTCGACCTTCATGGCGACAGCTCCA
CGGAAAGACAAAAGATGGCGAAAAGAAAACCCGCGTACCT

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Sequence 3366

CCGCGGTGGCGGCCGAGGTACTCCCTAGTTGTGTCTGAATTGGACGCACCAGCACTTGAG
CACACACAAATGCACGTGAACAGACGGAACATGTTATGGGCCTGTTAGCCAAGGAATGAC
AGAATTAATCCATGGGCATTTGCGGCCAGTGTTGTGTTAACTAAAGGGAAAAAGTGAAC
TGGAAAAAGCAATGTTTGTGTTTATGAAAATCTCAGACCCAATCCTTAGGTGACAGTTCTG
GAAATGAGGGGTGTCTAAAACAAAGGGCATCTGAAACTTCGGTTTTTCAGCTTCCTTTCC
TTGTCTCATGACCTCTTTCCTACCCGCTGCCTCTGTTTTCTCTAATATGGAACAGTGAAA
ATGGGGGCCAG

Sequence 3367

AGGTACTAGGTTGGCACACAATGGGATCTGGGCTTCCAGCAGAGGTAGGAGGCTCAGGAC
TGTAAGAACCCAGGACAGCGCCATACTGAGACCAGGAGGCACGTGGAGCCAGGCAGTGCT
CCCCGCGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTCGCCTGGTTCTAGGAATA
ATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTCGGTGTACCTGCCCC

Sequence 3368

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGCATGATAAGTTTCCAAGGAAC
CTTAGTGATGGGGACTGTCTCTTTTAAATTAATTTGTGTAAATAACTCCCAGAGCCATG
CTGGTAAGAAACAAAACAAAACAAAAGAAGTAACTGAAACAAACGTAGGATTTCT
GCTGGTAAAAGGATGCAAAGCAGGCCTGCCTGCTGCACTTCCCCAGAGCTAATCCTTGAG
CCAAAAGAGCTTCCTGGTGAAGCCTCGCACTCTCCGTAACAGGGTGTGGGGGGACCGAGA
CATGTGGGCTCCANACTTGACCATCTTTACCTAGTTATGG

Sequence 3369

AGGTACCCACCAGATGTGTCTGTCACTTCCCTACATCCACCTCTATTGTGGTTCTCATGT
TTCTGCCTCCCTAGAGACCATTCTCTGTAGAGCAGCGCTTTCGAATAGAAATACAATGC
CAGACACATAAGTTGTTTTAGATTTTCTAGTAGTCACTTTAGAAAAGTTAAAAAGAAACA
GGTGAATTAATGTTTTATTTACCTAAAATGTTAGCATTATCCAAAATATCACTTCAAC
ATCTTATCAAAATAAAATTATTAATGAGATTGGTTACCGTTCCGATAAATAGGTGAACTG
AGAGCATAACAGTAGTATTCTGTTCTAATTTCTGCTTCACTATGAGTGTCTTGACA

Sequence 3370

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGCATGATAAGTTTCCAAGGAAC
CTTAGTGATGGGGACTGTCTCTTTTAAATTAATTTGTGTAAATAACTCCCAGAGCCATG
CTGGTAAGAAACAAAACAAAACAAAAGAAGTAACTGAAACAAACGTAGGATTTCT
GCTGGTAAAAGGATGCAAAGCAGGCCTGCCTGCTGCACTTCCCCAGAGCTAATCCTTGAG
CCAAAAGAGCTTCCTGGTGAAGCCTCGCACTCTCCGTAACAGGGTGTGGGGGGACCGAGA
CATGTGGGCTCCAGACTTGACCATCTTTACCTAGTTATGGGA

Sequence 3371

CCGCGGTGGCGGCCGAGGTACAATCAGAGCCTCTGGAAATTTGATTCAGGCAAGTCGGGG
GAGTCTCCGGTATTCTTCTCTGAGAACTCTGTTTTTCATTATACAGCTGGACAATGGAATC
TATGATTTGCCTGTAGAGGTTAGAGGTGCATCCTTTAGAAAAATACATATTGCCAGAAGC
AGGCTGACTTGGGCCTCTCCTACCATTTTCTTCATCAAAGCTGCTGTGATGACGTTCTAG
CTTTTCTCACAGGCAGTTGTTGATGAAAAGGGTCTCCTTCAGGTGCTGCCACTGGCTCTG
GATCTCATCTTTGGCTATTTCCATAGCCAAGGGGCCCTTCCTGTGCATCAAAGAGGAAGGC
AT

Sequence 3372

ATAACTTGCGTCTGATCCAGGTTGCCGAAAGGGTGCCCGGTTGTAGGGGGTATTATTGTA
GGGTAAGTANAATGTAAGNGTAAGTTTTTTCTTGGTAAGGGTACTCCAATNGTCANCTCC
ACTCCTGGTCNTGTCTTGGGGTAAGGGTTGGNGTANAAGGTTGTATTATGTAAGGGNGTC
CACCCCCCTTGTCTNAAGGTGGCCCCCGGGGAAAAATCCTTTGGGNAACCGGTTAAATTG
GGTTTTCCCCCCCCCAATTTTNAAGNCCTCCCGNCCGGGGGNGGGAAATCCCCCCCCCA
AAACCAATTTGGGCCCTTGNCCTTTGGAAANGTTTGGGNAAAAAAGNAAAAGGGGNAA
AAAAANCCTTTGGGNAAAGNAAGGTTTGGGAANTTTGGGGTNGGCCCCCAAGNGGNCC
GGCCCCCAAGGTTTTNTTTTTTTTCCCTTTTGGGTNTTAAATTTGGGAACCTTTGGG
TTGGGTAAATTTTTTTTTTTTTTNGGGNTTTTNGGGGAAATTCCTTAAATTTANCCCCC
CCCTTTGGGTTTTNTTNNCCCCCGGAAAAAATTTTCCCTTTGGGCCCCCGNTTNGGNTT
TGGGTAAANTTCCCCCCCCCAANANCCNCCCNNTTTTGGGAATCCCCCCCCCANNAAT
TTGGGNANCCAACCNCCCANAAAAACCAACCAANNTTTNGGGTTTTTTTTTTTTTTGG
GGAAANGNCCCTTTNCCGGGGGGTTAANTTTTTAAATTAATTTNAATTTTTTTTTTTTTNT
TTTNCNTTCCAAATTTAAAAAAAAGGGGGTTTTTTTA

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Sequence 3373

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGGCGGGGGTCACAAGGCAGCCATCA
TGTTCTTGGGGCATCGTAGGGACCTGCTGGGNGGTGTAAGGTTTTCCCGNGTCNACCTNG
NTGGTAAGTAAGTCCTTCGNATNNCCTTGNCNTGGNGNCCTTTTCCCANCCGGGNCNTTG
NGTTTGTAAGTAAGGGGGNGNCCATATANGTCTCAGNGNCCATTAAAAAGNAAAAAATT
GGGGAAGTAACCGGTGGGGGGAAAAGGGGGGGGNAACCCCAATTGGTTTTNGGAACCT
TGGGCCCCCAAAAACCTTTTGGNCCGGGGNAAAGGGGTTCNAAGNCCCAATTTTGGGA
AGNCCCTTGGGGGGCCCCAAAGNGGGGGNAAAAAAACCGNGGTAAAGGGGCAAGGGGT
TGGGGTTNGGAACCAACCCCAACCTTTCNAATNGGGGGTNGGGGCCCTTGGNAAGTAA
ACCAAAAGGGGGGTNGGGGGTTTCCAAGNAAATTCCCCCCCCCGTTTTAAANGGGTTTT
TGGGGNTTTGGTTTGGGGTTTCCAAGNCCCTTTTCAAAAGGAAAGGNTNGGGCCCCGG
GAAAAAGGCCAAGNAAATTAATTTCCAATTTAAGGNAAAGGGGGGGCCCCCTTCCCGG
GTTTNGGTTTCCAATAATTGGGGCCCCAAATTTAAAGGGGGNTTNCCTTCCAATTTCCA
AAGGTTNAATTTTCCCTTTCCTTAAACCCCCNAAAAACCTTGGGNAAATTGGGGGGAA
ACCCGGGGNAAGTNAAAGNGGGGGNTTNGGGGGCCCAATTTTGGGTTTAAAGGGGGGG
CCNTTTCGGGA

Sequence 3374

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCGCCATGGAACCAA
CACCACGTCANACTGGGTAACCTTTCTTGGCAATANACCGTATAAGGGNCTGGGATAGG
NATGCATAGGNANATTGGNACCATTTCTTCAACCAACCCATCCAAGTCACAAAGNCCTT
TAAAAATTAACCTTGCTTTTGGGACCAAAAAAATTAAATTAAGTGAAAAATTTT
ATTAATTTTNTGGGAANCCTTCCAANGGNAAAAAAATTAANAAAATTTTCTTGGGT
TTTCCAAGGCCAAGGGAAAGTTGGGAACCCAGGGGGGNAANGGGGGGGTTCCTTCCCAAT
TTTTCCAATTTTNGGGCCAATTTTGGGNCCNAACCCNGNAAGGGGGGGGGGCCCTTC
CTTTATCCNTGGGTAAAGGGGGGGGGGGCTTGNAAGGGGGAATTTNGGGGNGGTTTT
NGGCCANNGGNNAATTTNGGGCCCCCANCCCAANGNGTTGGGTNNACCCAAAATGGGG
GGGNAAACCAATTTNGGGGGGGGGGGGGTNGGGCCCCGGGGGGGGGGCCCCCCCCCAA
GGTNCCAAAAGTGNCCAANCCCAAAGNGGGGCCCTTGGGGGNAANAAAGGGTTTTTAAG
GGNCCCTTGGGNACCCCGTCCCAATTTNGGCCCTTTTTTTTNGGGGGCCCTTTTTTTT
TAAATTTCNCCCCNAACCCGGGGGGGGTCCCCGGGGGGGGTTTTAANGGTTNGGNGGGCC
NCCCGGGGTAAACCCCCCCCCCTTTGGNGGGCCCTTNGGTTNGGGGGGGCCCCCTTNGGGT
TCCCCCCCCAAAGGNGTTGGNGAAGGNAAACCTTGGGGCCNAAAAACNTTTGGNTTT
TCNCCCCCCCCCTTTTTTCCCCNTTCCCTTT

Sequence 3375

AGCTGGTTTCCTGCCCAGCCTGGGGGCAATACCTAAGCTCCGNGTAAGGGCTCCGTAAGT
GTNCCCAATNTGGTNTGNGTCNGTCTTGTAAGGTTGGNTACNTTGGGTCTCCTGGNAAGG
GGTTCATATTGNGNTGGCCATANANGNGTAAGTCTCCGCNCCACCCGGGGGGCCAATA
GGTCTTGNTCCTGGGNTAAGNTGGTCTTGGGNTGNCCTTGGGTGGGTTTTTTAAAA
ATTNCCAAGGGGGGGGGGAANTTATCCAAGNGGGGGCCCCCCCCCTTNGGGGGGGGTANT
TTCCNTTTTTTTTTTTTTCTTTTTTNCCCTTTTCCNCCTTTTTTTTNCCTTTTTTCCCT
TTNGGGGGCCCCAAANGGAANGAAANTGGGGGGCCTTTTAACCCAAGGGGCCNAATTTGGG
GNAACCAATTGGNCCAAGNGGTTTTNGGGGGCCAANANAAACCCGGGGGGNCCCTTTTTG
GNAACCTTTTTTTGGGGGCCTNGGNAATTTTTTTAANAAAAAAAAGGTTGGNGAAAGG
NAAAAAAAAGGNAAAACANGNTTAAANANAAAAAAAANGGGGGCTTTAAAAAATTTT
TTNTTTTCCCTTTTCCCTTCCTTGGNTTAAANGGAAATTAATTTCCCTCCCCCAATG
TCCGTTTTAATAATAANAGNANAATAATANTAATAANANTANAAAATATTATANGN
AGNAGGGGGTTTAACCCCCCTTTT

Sequence 3376

ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAAGTGA
GGCAGCGGAGGACGACCTTTTTCCGGTTCCGGCTCTGGCGAGTAGTTTGTTGTCNNGTCG
ACATGGAAACCTGGCTTACCCACAATCTGCTTGTAAGTCTNCGCAATGNTGTCCGGTGGNG
GGTGGNNGTTTCCNCGTNGGTCTTCTCCCCNCCTGGCNTCCTNNCNAGGNCNCAACCCC
GAANNGTTTCCCGTTTANTCCNTNGCCCCCTTGTGGGGAAAAATTTCAAACCCCCCAA
ACNTTTNAATNGGGCCGCCGTTATGGATTACCCCTTAAAAAGTTGGGNAANTTGGGTTC
GGNCGG

Sequence 3377

ANCTGGTTTCCTGCCCAGCCTGGGGGCAATACCTTAGCCCGGTAANGGGCTCCGGAAGGG

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NTTCCCAATNTAGTTTTNGTGTCNGTCNTNGTAAGNGGTNGNTTCTTGGGTCTCCTNGTA
 AGNGGTTTCCATAATGGNGGTGGNCCAAATATGGGTAAGTCTCCGTCTCCAACACCGGGN
 GTCCAATNGGTTCNTNGNCTCCTGGGGAAGTTGNCCTTNGNTTGGGCCTNGNTTGGTTTTT
 TAAAATTNCCAANGGGGGGGGGAATTANCCAAGGGGGCCCCCCCCCTTTGGGGNNGNN
 TTTNTTCCCTTTTTTTTTTTTTCCTTTTTTTCCTTTTTCCCCCTTTNTTTCCTTTTTCCC
 CNTTTGGGGGGCCCCAAAANGAAAGNAAAAAGGGGGGNCCTTTAACCAAGGGGNCCANTTG
 GGGNAACCAANTTGGCCAAGNGGTTTTTNGGGGGCCAAANAAACCGNGGNNGCCTTTNGGNA
 NCCTTTTTTNGGGGNCCTTGGNAATTTTTTAAAAAAGGGGTGGGAAGTAAAAANA
 AAGGAAAAAAGGGTTTANAANAAAAAAGGGGGGTTTNAAAAATNTNTTTTTT
 TCCCTTTTNNCCCTTCCTTGGNTTAAAAAGGNAAATTAATTTCCCCCCCCAAGGCCCTN
 TTANTAANANAANATTATAANATAATAANAATAATANAATGANAAAAGGTTTAAANCCCC
 TTNCCGNGGGGGCCCCCGCCTTTCCTTTAANGNAAAAAACCCNTTAAAGGNGNTGGGN
 GGGTAAATTTCCCCCNC

Sequence 3378

TAGGGCGAATTGGAAGCTCCCCGCGGTGGCGGCCGTCCACAAATGTCTGCAAGCTACCGA
 TGGGGACCCTCAAGTCTTGCTGGGTACAAGGGTAATAGGTAAGGGTATTCATANGTCNTT
 ATAAGTANAAGGGGCTCCAGTGAAGGTNGTTNGNCCATAAGTCCATGTAAGTAAGTNAG
 GGGGNTTGGTGGGGTACCAAGNAAANANAACNCTTTTGNCTTNTCTNCGCAAGNGGGN
 CCTAAGNTTGGGGCCCGNAAAAANAAGGCCTTTAATTCCTTCAAAGGGGCCTTGGGGGCCT
 TCCAAAANGGTTTGGGGGGAANGGAAGGNAAAAAANAAGGGGCCATTGTTGGGAA
 AAGGNAAATTTCCAAAANGGNCCAAAATTTGGGGGGGAANCCAANGCCTTTGGGGGGGG
 NAAAAGGGGGGCCTTGGNNGGCCTTTTTTTTAAATTTTTTANNCCTTTCNAAGANTTCCCC
 NAAAGGCCTTTNCAAGTTTCCCCCCTNNGGGGCCANCCTTGGGGGGGGCCCCGGTTTNGG
 CCCCCCTTTTGGGTNAAGGGGGTCCCCCCTTTCNTTGGGTNGGCCCCCAAAGGGGG
 TTCNTTTTGGCCCTTATTGGGGGGGGGGGGGTTTTTGGGTTTTTTTTCTTTTGGGGNC
 CNAATTTTNNATAAAGGGGNTCCTTTCCAAAGTTTTTCCAAAAAACCCGGGCCNCCA
 AACCCCCCGGTTTGCTTTTTCTCCAATAANTNNAAAATGGCCCCCCTTTTNTAAACCTT
 TGGGGTTNNCCCAACCCCCCCTTTANTTTNCNTTTTAAAAAANGGNTTTANAACCCCC
 CNTTTTAAACCTTTCCCC

Sequence 3379

CCGCGGTGGCGGCCGAGGTACGCGGGGCTTTTCACAAGTATGGNGCGCCCGTAAATAGCC
 GTATATGTANATGTGTATAAGTCCCTCCTGGTCTCNCCTTCTCTTAAAAATGNCATNGTA
 TATGTCCCATATAAGTCCGNATAAGTGTCTTTTNNATATAAGNGTCTCCATANNTAAAA
 GNGTCCANGTTGGTTTNGTATAAAAGGGGTGCGTTCTCCATCCAAGTCTCCANCCAAATA
 AATAAGGGAAAAGNNAAAAGNAAATNCCCCCGTNAAACCGGTTNTTAACCTCNCCAACCC
 CNTTTTTTCCGGGGTCCNGGGGCCNCCNGTCTTTCCTTTAAGGAAAAACCCCTTANANGTT
 GGNGNGAATTTCCCCCCCCCGGGGGGCCTTGNCAAAGGGGAAAATTTNCGGAAATNTTT
 CCCANAAGGCCTTTTAATTNCGGAAATNANCCCCNGTTTCGGGAACCCCTTCTTTAAGG
 GNGNGGGGNGGGGGGGCCCCCGNGGTTTANNCCCCCCAAGTCCTTTTNTTTTGGTTTTT
 TCNCCCCTTTTTTNAAGTTGTAAAGNNGGGGNTTTTAAAATTTTNGGCCGGGCGGCCCT
 TTTGGGGTCCGTNTAAAATTTCCAATTNGGGGTTCATTTAAAAGGNCCCTTTGNTTTT
 TTTCNCCCTTGGTTTGGGTGGGGAAAAAATTTTTGGTTTTTTAATTTCCCCCGGGCTT
 TTCAACCCAAAATTTTTTCTCCCANCCCAACCCAAA

Sequence 3380

AGGTACACGCTGGTTGGACCTATTTCATGGCATCTTCACCAAGCAGCTGGGGNAGTCAATC
 NTNCCACNCCTTTGGGGGTATTTTTTNCNTGGGGGTGGGTANAAAATATTATCTTGTTNG
 TAAGGCCTTCCTTNGGTGGNCTTTTGGGTANATAACTCCANGGTNTNTGGGAATNAAAAG
 NTTCTCCTTTTTTACCTTATAAGGGGGAAGNCCTTCCCTTGGGANAAGGGGGGGCCTNGN
 CCCCCCTTGGGGNCCCCCAAGGGGGGGGAAGGGCCCCCTCCCCGGAANAANTTCCCTTTTT
 TCCAAAGTTTNCCTTCCTTTCCAAAANGAAAGGGAACCCCCAAACCCAAAGTCNTTTGGG
 GGGGGGGGTTTTAATTAAAAAGNGTTTTTAATTTAAGGNTTTTTGGGGGGGGAANANCC
 TTTTTTCNCCTTTTTTAACCAAGGGAAGGGTTTTTTAAATTTCCAACCTNAAGGGGGGTTNAG
 GGCCTTTTTTGGGTTCNAAAAAACCCAAAANGGAAACCTTAANAAAGGCCCTTTAATTT
 TGGGTAAAGGCCTTTTGGTTTCCCCCGGAAAANCCTTTTTTGGCCTCCTTTTTNTTGG
 GGGGAAACCCCAACCTTTTCNTTTTTTCCTGTTTTTTTTTNGGGG

Sequence 3381

AGGTACGCGGGCTCCTACTTGGATAACTGGTGGGGTANATGTCTAAGNAGGCTTATATTA

Table 1

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CAATGGNCTCGGACCGGGNGTCNGTCCTTGTA CTCTCTCCTTTTTCNGTCCGGGGGGGGG
 GGGGTAATGGGCCGNTGGNCCATTTTGTATCANGNATGCANANAAACNCAATANCTCCC
 GGGGTTCANGNCTCCCCCTTCTTTCCCGGGNCCGCCCCGGGTCCCCCGNCNTTCCTT
 AAGGNAAAACCTTAAAGGTGGGGGAATTTCCCCCCCCCCCCGGGGGGGGGCCTTNGGC
 CCAAANGGGGAAAAAATTTTCGGGAATTTAATTTCCAAAAANGGCCCTTTTAAATTT
 CCGGAAATTAACCCCCGGNTGCCGNAACCCCTTTNNTTAAAGGGGGGGGGGGGGGGGGG
 GCCCCCCCCGGGGTTNNCCCCCACAAGCCTTTTNTTTGGGNTNTTCCCCCCTTTT
 TTAAAGNTTGGGGAAAGGGGGGGNTTTTANAAATTTTGGNCCGNNCCCGGCCNTTTT
 GGGGGCCGGGTTTAAAAANTTCCNAATTTGGGGGGTTGCCAAATTTAAAGGGCCCTTCG
 GGTNTNTTCCNCCCTTGGNTTGGGGTTGGGNAAAAAAATNTTNGGNTTTTAAATTTN
 CCCCCGGGCCTTCCNAACCCAAAAANTTTNCCCCNAACCAACCCAANAACCCAAAT
 TAAACCCCGNAAAGGTCCCCCGGGGGGGGGGNAAGGGGCCCAATTTTAAAAAAAAGGT
 TTGGGTTTAAAAANAANGNCCCCCTNGGGGGGGGGG

Sequence 3382

CCGGGCAGGTACATAAAGTGCCATGTCAGGGCCTTCTGGGCTTCTTAACTCTGCAATNCT
 NCTTCTGGNATTTGCTTTGGNCTTGCCAATGGGGTCTATCTCANCTCCAACCANAATTC
 CATTGGGTGAAAGGTGAAACCAATTTGTGATTTNTTCTTTNAAGGTAAAATGATATAA
 AACCTNCTNAACCANACCAATNGGCCCCGNAATTAAGGGAACCTNGGTTGCCTTTCNTG
 GGAAAAGGGGGCCAAAAAACCTTGGGTNGGTTTAAAAAAAAGGGTTTTCCTTTT
 TCCTTGGAACCCAAGGGCCAAAGGGCCCCTTTCCAAACCCCTTTGGGTTNAAAATTCC
 CCCCCAAGGNCAACNTTTTGGGGGGGAAAGGGCCCCCGAAAGGGGGGCCAAANG
 GGGGGCCCAAGGNAACCCCCAAACCTTTTNGGGAAGGGCCCTTTCCAAAAGGGGGGA
 AATTNTTNTTCCCGGGAACCAAANCCCCCAAGGGGCCNCCCTTTGGGGGGGAACCCAA
 AAAACCCAAATTTGGGGGGGGCCNAAAAANAAAAAACCTTTTCCNCCCGGNTTTCNT
 TCCCGGGGGNCCGGGNCCCGGGCCCTTTGGGNNTTTGGGGCCCTTTTCCTTTTCCCC
 CGGGCCTTTTTCNCCCGGNCNTCCCCGGGTTTTCNTTTCCCCCCCCGNGCCCGGGN
 AAAAAAGGGGCCNTTTNCCCTTNAAATTTCCCTTTTCCCTTNCCCCCCCCCCCCGGG
 NCCCGGGGTTTAACCCCCCTTTCCGGGGGGGNCCCCCGGGGCCCTTTTCNTTAAAA
 GGNAAAAANCCCTTAAAGGGGTGGGGGGGGGAAANTTTCCCCCCCCCNCCNCCCGGG
 GG

Sequence 3383

TGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAACCGCTGGATCCGAGA
 AATTCAAAAAGTGACCAAACCTGGTATCGAGTATCCTGCNATTCAGGTAACCTGGTCTTA
 CAGGGAAATTAGTTTTTTGGNCTAAACNTTGGTAATCGNTGTTCGGTTATTACNCGGCATT
 CGCAGNNAGTAATACGGGGTNGTAGTCCCCGGGNAAAGGTTTTCTTCCCTGGAACCTCCT
 GGGGAATTAATCTTTGGANAAAACCAATGGNNGCNAAAGGCGGNCTTTTCCAATGGCCC
 ACCNGTTCAAGTTTTTTTTGNAACAACCTGGAACNACCANGGGTTCTTTTATANACCA
 NGGNCCTTTTTTGGGGAAAAANCCTGGNGGAANATTGTACCCTCACCANATTNCCCTTTT
 TGGGATTNGCAAATAGGAATTTTTTCCCNTTCTTGGAATTTGGNNTTNTTTGCCCTTG
 GNCTCCTTGCTCAACCGGGCAATCCCTTGGGGGATCCCAANAAAAATTAATTGGAACCA
 AGNGNTCCNGGCCCTTTTGGTTTTTGNCCCAATTTTTTTTTCAACCGG

Sequence 3384

CCGCGGTGGCGGCCGAGGTACAGTGAAACTGCGAATGGGCTCATTAATCAAGTTATAGG
 TGTCTTTGTGGGGNTCAGTCTTCCGNCNTNCNCTTCNTTCCTAACNTGTGGGGATGANA
 CCTTGGGTGGGGGTNATAATTTGCTTATGGAAGACCTTAAATTATCCACTGGTCCCCGGA
 CCGNNGNCCGNCATTGNANCCCCCCTCTTTTCCGGCCGGGGGGGGGGGGGGGAATTG
 GCCGTTTGGGCCAATTTNTTTAATTTCAAGGNAATTCCAAAAAAAACCCCAANAACCCC
 CCGGGGNTTCCAAAGGNCTCCCCCCTTNCTTTCCCCCGGGGGNNCCCCCNGGGGGN
 CCGGNTTTCTTNAAGNAAAACCTTAAGGTNGGGGAATTTCCCCCCCCGGGGGNCCCTTG
 GCCAGGGGGGAAATTTTGCCGNNACTTAANTTCNAAAAGGCCCTTTTAAATTCGGNAAT
 TAAACCCCGGGTTCCGTAACCCCTTTTNNAAAGGGGGGGGGGGNGGGGGGGCCCCCGGG
 GTTNNCCCCCNAANTCCNTTTTTTTNGGTTTTTCNCCCTTTTTTTTAANGGTTTGNA
 AGNGNGGNNTTTTAAAAATTTTNGNGCCNGTCCCGGCCCTTTNGGGGGGCCGNTTTAAAA
 TTTCCCAAATTGGGGGNGGTTCCNATTNAAAGGNCTTGGNTTTTTTTTTTCCCTTGGG
 TGGGGTTGGNAAAAAA

Sequence 3385

ATAGGGCGAATTGGAAGCTCCACCGCGGTGGCGGCCGAGGTACACGGTCTTTGCGGATGT

Table 1

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CCACGTCACACTTCATGGTATGGTAAGTTTGGTAAAGGGTTGGGNTTCTTCGTTGGGTAT
NGTCTCCGGCTATAGGTAATNTNCCCANTTACTCNCCANGGGTAAAGGGGTATAGGGNCT
TGGNGTATATCCAGTCNGCTCCTNCTCCGGGGAACCAACTCCGNGTAAANCACCGGCCTT
CCAATTTTGGCCCCAANAATTGGGGGGTTGNAATTNGNAACCNCTTTGGGGGGNCCNCCC
ANNTTTCNGGGGGGGGGCAANGGCCNTTCCGGGTNAAAGGCCTTCTTTTNTCTTTTC
CCCCAAGGGAAGGNAAAAAGTNAAAGGGGGGAAANGGGGAATTTNGNCCCGGGGNNGGN
TTGGGGGGCCCCAATTTCTTTCCCTTGGCCTTTCGGNAAAAGGTTTCCCAAGGGGGGGCC
GGAACCCGNTTTAAGGCCAANCCAAAGGCCNTTTTTCNTTCCCCTTTTGGGAAATGGGG
TTCCNGNCCGGCCNANCCNGNAAATTTTTCCTTCCCCCGGGNCTTTCGNGGTCCCCCGG
CCTTTCCTTTAANNNAAAAACCTTTANGGNGTTGGGGGGGAATTTCCCCCCNCCCCGN
GGNGGTCCCTTGGNCNNAAGGGGNAAAAAATTTTNCNGNAATTTANTTTCCAAAAA
NGGCCCTTTTAAATTTCCGNGAAATTTNANCCCCCGGGTTTCTNGGAAANCCCCCTTT
CTGTTAAAGGGGGGGGGGGGGGGGGGNCN

Sequence 3386

TCACTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATTTGATG
TAGTTTTCTTTTTTAAATNTATATCAGNANATACTCCCCACTTTTCCCATTGTTAAT
TTGGTTCCTNGGACCACCAATGGGCCTTCTTCAAATTTATAATTAAATTAATAATGGG
GGGNANAAATGGGTGCCGNAATTTNTTCCAANAATTAATNAAGGACCTTTTAATTNA
TTGNCCAAGGGGNCTTGGGTNCCGGTTNTTTCNCCCGGGGGTTNTNANTTTGGGTTTTT
GGNTNGGNTTNAAAAAGGGTTNCCCAAAAACCTTCTTTTCCAAAAGGCCCTTTTC
CAAATTTTCCAAACCTTTGGGTNCCCCCTTGGGGGCCTTTTTTTTAANTTTTTNAAAA
AAGGGAAAANAAAAAANAAGGGGGCCAAGGGTTTACTTTTCCCCCTTTTTTNTNT
TAAAAAATTGNAAAGGNCTTTTTTCCAAAGGGGNAAAAAGGGTTTTTGGGCNTTGGGNA
AGGAAAANAANTTGGGGGGGGGGTTTGGGGGGNAAAAATTANAGGGGGGGGGNAANACC
TTGGGTNNANAAATTGGGGNCCCCCAACCTTNGGNANNAAGNCCCNACCCNGNTGGT
AAAGGNAAGGGAACCCCCCCTTNGGCCNAAAAANAAAAATTGGGNAAATTNGGGG
TTGGGNAAAAAAGGGGGGNAAACCCCCCAAGGGTTTTTTTTTCTTTTTTGGGGAAAA
AAGNNTTCCCCCAAGGNTTNGGGTTNTTTTTTCCCCCAACCCGG

Sequence 3387

TCACTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCGGGCGGTACCGCGG
GAGCTCGGGCTCCTGAGGGCGACGGTCTCTGATGGCAGATGCGGGAGAACTCTGGCGT
CAGGCGGCCCTCGCGTGGAGCACACGAAGTCGTGGCTTATTCTGGCTTCAGTATGTGGGG
TGGAGAAGGCGATCCACGCAGCTGCGTCTATTTCTGTGGATCAATCGCAAATACCGTT
CTGTAAGCCCCGCCCCACTGCGTGCGGGCGGCTTTTGTCTCCATGGCAACCGTCAACTC
TGGAACGCCTGTCTTTCTCCATGGCAACTGTCTACGCCGAGGCTGGAGCTGCCCATTA
CCGGAGCCCATATGGCAATGACCTTGGCCAGTCTCTGGGAACATAACTCCTGGGATGTT
TACACAGGTGCTGGGTAAAGATGTTCTTTCCATATGCTCAAGACCACGG

Sequence 3388

CCGCGGTGGCGGCCGAGGTACAAAAAATTCTACATGCTGTGGCCATAGCTGGCGAGCCAC
TAGGACCTTGCACTTTTCCTATTACCTTAAGGCCTGATCCAAATAATCCACAGCAGTTTA
TTCATGAACACACTCCAGTAAATTTAAATTATTGAAAGAATTAAAAGCTAGTGTGGTTA
ATAATGGAATACAGAGCCCATTTACTTTAGGATTGTTAGAATCTGTATTCAGCACTATGC
GCCTCCACCTTGGATATAAAGCATTTAGCTTGCACCTGTTTCTCTGCTAGTGCATATT
TGACATGGAATTTAAATTGGCAAGAAATGTGTGCAGACCAGGCTAGACAGAATCTCACCG
CTGGACATGGGAACATTACAGAGGAAATGCTATTGGGTAGTGACTCTTATTCAGATCTGG
TGCAACAATTGACACTTC

Sequence 3389

CCGCGGTGGCGGCCGAGGTACTGTGCTGAGAAATGGNGCCCCCTTGGCCAAGGATGGCTGC
CCCTTCTTCCTTTCTTCTTCTGNCGTAAGGGNCCAAGTAAANGGTTCCANGNNAAGG
GGTNATGTAAGTATTTTGNCTTGGNGNCCANAAAAANCTNGGTGGNANAAGNTGCNCCC
ACCCCCCTTGNNGGGGGGTNCTTCNAAANCACCCCCCANAACTTNTCCAACCTTGNAAG
NGGGGNCCANGTCTCCTTCTCCCCTTGGGAACCGNTTGGGTNGGTGGGAACCTTTAAGG
GGGCCANAGTTTAAANGGGGGGGTTTGGGGGGCGGGGTTTTNGGAAATTGGGGGCCCGG
GNCCCCGGCCTTCTTTAAGNAAACCTTAAGTTGGGGGAANTTCCCCCCCCCNGGGGGC
CCTTGGCCCAAGGGGGGAAANTTTTCCCGGAANTTNTTNCNCAAAGGGCCTTTTTAATT
TCCGGGAATTAAACCCCCGGTTCCNGNACCCCCCTTCTGTTAAAGGGGGGGGGGGGGG
GCCCCCCCCGGGGNTTGAACCCCCCAAGCCTTTTTTTNGGTTTTCCCCCTTTTTTTA

Table 1

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AATTTGGAAAGGGGGGGTTTTTAAAAAATTTTGGGNCCGGGCCCCGGNCCCTTTTNGGGGG
CCCGGTTTAAAATTTCCCAATTTGGGGGGGTTTCCAATTTAAAAGGGCCCTTNGGGTTT
TTTTCCCCCTTGGGTGGGGTNGGGAAA

Sequence 3390

ACTTGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGATAGGCAAGCACCGGAAGTACCCCG
GCGGCCGCGTAATGCTGGTGGTTCTGCATNCACNCACACGGTATCAACATTCGTACAAT
ATANCCACTCCAGGNTACTTTTGGGNAAAGNTTGGTATGGAAGCATTACCCACTTTATT
AGGAGGNAACNCAGTAGCTTTTNTTGCCCAAACCTGGTCAACCTTGGACCAAAAATTGG
TGGGGAACTTTTTGGGTTTCCAAGTGGAAAACCAAGACCACNGGTGGGAAATGGGCCN
GCCTTAAAAAAAACNAAAGNACCTGGGGGGGCTGGCTTCNCCCAATCCATTTTGGAT
TGGTGGGATGGCCCGAATCCNGGGGGCCTTAACCTTAACCAAAAAGGTTTTCTTGGGGN
AAAAAAGGGGGGAAA

Sequence 3391

CCGCGGTGGCGGCCCGCCGGGCAGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGA
GTGAGAAACCACCCCGGCTCCAGTGGTTTGAACAGCAGGCGAAGAAGTTGGCAAAGCAGC
AGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGGGAAGATATTG
ATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGG
ATGCAGAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGGCATCCCTATCACGGACT
GCTTATTTTGTTCCTCATTCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAG
ACCACAGTTTCTTTATTCCTGATATAAGAATATCTTTCAGATATTAAGGGGACTGATTAA
ATACTTGGGGAGAG

Sequence 3392

GCTGTGGTGGCTCACGCCTGTAATCCCAAGCACTTTGNGNGTAAGGGCTGGTAAGGTCAA
GGNTTAGTATTCACCTCTTGGTAAGGGGTNCAAGGGTAAGNTNTTCCGTAAGGAACCNCA
AGTCTCTTGGGGTCTCCANANCCAATNGGGGTGGGAAAAACCCCCCTGGGTGCTTCTTAA
CCTTANANAAANATNATTAAAAANATATTTTAAAGTCCCCAAGGGGNTTGGTTTGGGGNT
GGGGGCCCCGGGGNAATTGGCCCCCTTGGTTAAATTNCCCCCACAAGGCCNTTAACCCCTT
TTTGGGGGGGGAAGNAACCCCTTGGGAAANGGGGGNNAAGGGGGGAACCAAAAATTTTC
CAAACCTTTTTTAAAAACCCCCCAAANGNAAAGGGGGCCAAGGNAAGGGGGCCCTTGGG
CCCAAGGNTTGGGAAAGGCCCCCAAAAAGGGAAATTTTGGGTTAANCCCCCAANTTTTG
GGCCCAAACCCCTTCCCCAAAAGGCCCTTTTTTGGGGGGGNGCCAAAAANTTGGGGGGGAAA
GGNCCAAAAAAGGGGAACCCCTTCCCCCAANTTCCCTTTTTTAAAAANAANNANANAA
ANAANAANACNAANAATANTATATNAATATAANACAANNANAANAANANANNAATGANG
GNGTTNANCCCCCCTTGGNGNCCCCCCCCGGGGGGGGTCCCCGGGGGGGCCCCCGGGG
CNTTTTCTTTTAAAGGNAAAAAACCCCTTAAAGTGTGTGGGGGGGAAATTTCCCCCCC
CCCCCCCCCGGGGGGGNCCCTTGGGCCNAAGGGGGGGAAAAAATTTTNCNGGAAAA
TTTAATTTCCCAAAAAAAGG

Sequence 3393

AGGTACTTCCTGCACACACGCGCCACTCTGACCATTGCAGGGCTGGCAAATATGGTTCAT
AAGATNCACCTTAGATATANATACCTGTTCAATGCNAGCNCCAATCTNACATAGGGAATC
GGCTCATTTGTATATATAGANGGCCACCTTCTAAGACCATCCGAGNCTAGTTTTAGACCG
TGNCCTGGGGCCCCCTTNTCNCTNCNAATGGTCCAACNTTCCGGNTGGGGTNAAAAGGG
GNAACCAAACNCCCCTTGGGGGAACCCCTAACNTTNCCTCCAAGNNAAAACCAACCCCA
ATTGGGGGGAAANTNTTCCAAGGCCNGCCCTTTTTTNAAAAAATTTATTNGGAAGGNAAA
CGGTTTTCTTTGGNAAAATGGGAAAGTTTTTTTTTTTCTTTTAAAAAAAATTGGGGT
TGGGGAAAAAAAAGGAAATTAANTTCCNCCTTTTTCCGGGCCCGGGCCCTTTCCCCCTTG
GGTTNTNGGGAACCCAAATTTCCCAAACCCCTTNGGGGGGTTCCNAAAGGTTTTTNTNGG
TNAAGGNAAAAANNGGTNNGGGGGGGGGGGGNGAANGGGAATAANAANAAGGGGA
AAAAAGGGCCCATCGTNAAAAATCCCTTGGGNANNACTNNANAAGGGAAAAAANCCCTT
NTTNTTTTTTAAATTTGGGGGAAAACCCAATAAAGGGNAAAAAAGNAAACCCCGGGGGG
GCCAATAATTTTTTCCCAAACCNAAAAAAAAGGGGGCCCCCCCCCTTT

Sequence 3394

AGGTACACGGGGCCCCCAAGACTCGTATTTGGTGGACTGGGGTCTCAAAGGGGGTCTTG
GTGGGGTCTTGGGCAATGGNCTTGGCCTTTCGGGGGGGGGATTNCTCTTTTTGGCCAAG
GTTTTCNCTGGGAAGGGNAAGGGNATAATCTTTTNTCTCCCCACCAACCCCGGGGTTT
TTTCTNCTTTTTTCCGNTTTTTTGGGNAAAGGGGAAGTTTTTGNAAAGGNAACCCCTTGGG
GNGTNGGGTCCCCCTTGGGGNCCCTTCAAATTCNCCAAGGTTTTTCCCCCGGGCCT

Table 1

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TTCCCCAAAGNAAATTCCTTTTTCCNGAAAAGGGGGAAAAGAAAGGTTTGGGAACCCA
AAGGGCCCCCTTTTCTTTTCCAAAGCCNGGCCCTTCCTTCCCCCGGGGGGCCCAAAAATT
GGGCCTTTCCCCTTGGGGCCAACCCCCCAAAAGGGGGNCCCCCTTTGGGGGGNAAAGNN
CCCTTTCNCCTTGGGGGGGGGGGGGCCCAAGGGGGGAAATTTGGGGGGTTNCCAAAGGN
GGGAAAAAACCTTTGGGCCCTTTNCCNCCAAAGGNCCCAANCCCCCAAGGNTTTTA
NAGGNCCCNTTTCCCCCAANGGGGGGGNAAATTTCCCTTNGGNCCCNTTCCCCCTTTTG
GGGGTTTGGGGTTTNGGGGGGAAAATTTCCCTTTCGGGGGGGGNCCCCCTTTNCTAA
AAGGTNCCNCCCAANCCCTTTCCCNAAACCAAGGGCCCAAGGTNAAAAGTNCCCAACC
CCCCCCCCGGGGGGNAANGTTTTTTGGGGGGTCCCTTTCCNAAAANGGGGGGGGGCCCCC
TTTCNTTTTCCGGGGNGGGGGGGGTTTCCCCAAAAGGGGGGGGG

Sequence 3395

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCATNCANTGANATATATATGCNA
AAGANGNANACTCCATTGCNGNTTNCTTTGNTGNNTACAAGGGTGNACACATGTCACCAG
ACACCNCAAGTACACGATGCAACAGTCCAGCGCATTGNTCCAATTGANCCGGTGGAGGTG
CNCCTGTACNAGGCNATATTGGCNCCGANTAACGCNCCANACTNGGCTCCANCNAAAGG
TTGAANTNGCCCCCTTGGTTNCTCCAACCCCCAAAATAAACCCTTGGNGGGGNNGGG
NCCNTTTCGTTTTNAACCCCCAAAANANAACCCCCCTTGGGCCCCCCCNAAATNGCGTTC
CNCCTTTCCAAATTCTTTNTNGGCCNTTGCCCCTTTAAACCAAGGGTTTTTTGGGNTNC
CAANNNAAAAACCANAAAGGNTGGGGGGGNTTCCCTTAAAAACCTTTTTTNTAGGTTGG
GCCAANTTNATTTAAANTTTTTAAAAAANCCNTTGCNCCCCCAAGGGCCCCCAAGCCTT
ANTTTGGTAAAAACCCAACCCANAAAAANTGAACCCNTGGGNAAGGGGGAAANNNAANGG
AAATTTTGGGTTTCCCAAAGCTTTTTTTTGGNNTTAAAAAGGTTNTTTCCCCCCTTTTTT
TAAAAAGCCCCGNGGACCTTTTTTTTTTAAATGAATTTTTTTTNTCTTGGGTNAATT
NTTTNAAATTTTGTGTTGTTNTTNAAAAAATTGGGGCCCAATTGGGGGGGGCCCCCTTGGGTTT
TTNAGAAAANACCAAATTTAACNTTTTTTNGGGGGGGGTTTGGGCCCCCCAANAAGGGGG
GTTTGG

Sequence 3396

CCGCGGTGGCGGCCGAGGTACGCGGGGGAACCTTGCCAGGTAAGGAGGCAGAGGGATGAT
GCTTGGCAGAAAGAGTATCTAACAAGCTTGCATGTTTGACAGAAGCAGCAGCCATGAAGA
ATGAAAGTTTTAAACACAAGGAGCAAGTTCAAAGTCTCGCTCTATCACCAGTCTGGAG
TCCAGTGGCATGATCTCAAGATTACTTGCAGCCTTCACCTCCCAGGTTCAAGCAATTCTC
CTGCCTCAGCCTCCCGAGGAGCTGGGACAACAGGCACATGCGACCATGCCCAGAAACAGC
AGCTATGAAGCCTGCAAATTTGAAAAAAGAAAAGAACGTGCAAAAGAACACAACCTAAA
AGTGGCTTCAGAGGAAAAGCAAGAAAGGCTCCAAAGAAGTGAAAATAAACAGCCACAGGA
TTCTCAAAGTTACGGAAAAAAG

Sequence 3397

GGNGCGAATTGGAAGCTCCACCGCGGTGGCGGCCGAGGTACAGCTCTAGGCCGGAAGTTG
GGGCTCTTCGGTATCGCTTAAGNATTTCTNCCCTTCTNTNTGTCTTGTCTATNTTTTCNCCN
CTCTCACAGNTTCTCCTTCGNTNTTCTNCTCCCGTCNGGTTTATNGTCTCCTTGTCGGG
TACNCNCCGGGGAAGTAAAAGGGGGTAAGTAAAATGNGNAAGGAAGGGGGGGGNCCTGG
NCACCGGCNTTNCCTTNCNTTGGCCCCGGCCCCGGTNGGCCTTNCGGCCCCCCCCCTNCCG
GTTTNACCTTTCCGGGGCCCCCCCCCGNNGNCCCCCGGCCTTCTTTAAANGAAAAAANC
CTTTAAAGTTNGGGGGAAAATTTCCCCCCCCCCCCNGGGGGGCCTTGGCCAAAGGGGGAA
AAATTTTTTCCGGNAAATTTAATTTCNAAAAAAGGNCCTTTTTNAAATTTCCCGGGAAATTA
ACCCCCCGGGTTTCCCGNAAAACNCCTTTTCTNTNAAAGGGGGGGGGGGGGGGGGGGGG
CCCCCCCCCGGGGGGTTAANCCCCCCCCCAAAAGGCCCTTTTTTTTTTGGGGTNTTTCCC
CCCCCTTTTTTTTTTAAAGTTTNGGGAAAAGGNGGGGGGNTTTTTTAAAAAATTTTTGG
GGCCCGNCCCCCGCCCCTTTTTNGGGGGGNCCCGGTTAAAAAATTTCCCAAATTTGGGG
GGGTTNNCCAAATTTNAAAAGGGGGCCCTTTTGGGTTTTTTTTTACCCCCCNTTGGGTTTGGG
GTTNGGGAAAAAAAATTTTTGGGGGTTTTTAAATTTCCCCCGGGCCTTTTCCNAAACC
AAAAAANTTTTTCCNCCCCAACCCAAACCCAAAAAAN

Sequence 3398

GGGCCGAATTGGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATGGAATAAGTGACAAAC
TCTAATTTGGTTAGGNAANACCATTTTTTAGGGNCTCATGGTGATTATAGGTTTNACCCA
CCTGGGATTTTNTNTTAAGNCCAACTTNAAGGCCTTNATTNATNTTNTGTAATTCANCA
AGTAATGGGGGGGTGTCANCTCTTTTAATANANAGGNANATAAAACCTTAATAGGGGNAN
GNAATNGGGGGAAANTGGGAAAATNCCGAGGAAAAATTNCTTTTTTTTTCTAAAAAA

Table 1

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ATTAACCAAAAAGGGGGTTAAGNTTTTTTAAAACCCACCCCAAATTTANCCCTTTCAAAAA
GGGCCCAAGGGAAAAAANTTTTTATTTTAAAAATTNCCCTGGGTATTTTTTNAAGGAA
GGGAANTAACCCTTTTTTTTTTTTTTTTGGGAAGGNAACCAAGGGAAGGNTNCCCTTNCN
AACCNNTCCCTTNANTTCCAAACCTTTCCAAAGGGGGCCCTTGGGGGGNAAAGGNNCCC
GGCCCANNNNGNAACCCCCCGGGTTNCCTTNCCAAAAAANAAAAAANAAAAAACCCTTAN
AACCCNANANTNAANNNNCCNANNAANAAAAAANAAAAAATTTCCCAANTTTAAAG
GGGAANCCCAAGGGGCCCAACCCCTTGGGTNNATTTTTTTTTTNCNAAAGGTTTNAAGGG
GGGNAAAAAATAATTTAAATTTGGNCCCAANANAGGGGGGAAAGGGGGGTNAAAGNGG
GGTANAGGNAAAAAACCCTTANAAACCCCTTGGGGTTCCCTTTTTTGGGCCCTTTGGG
AAAGGGGGGGGGGCTTTAATNGTAAANCCCGGTTTNGGGGTTTNGGGGCCCTTTCNCTGG
NGAAAAAGGAAAAAAA

Sequence 3399

CTATTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAGGCGCTTTGAGAAGGA
GAAGCTCAAGTCCCAGTGGGAACAATGATAATTCCTTTTCAAGTAGTCGTCTCACTCA
CGTANCGGTTTCATGGAACCTCCAAGTTTTGCCTGAGTAGNTTAGGNAGNCACTTTGGNTG
TNAGNACAAGNGCTCGTTCTNGGNAACCCCACTCAATGGTCTTGGCNCCCCATTTCANCG
CCGGGNTCCGNTTTCTTTAGGAAACCTTAAGGTGGGGTATTCCTCCCNCCGGGGGCTGC
AAGGGGAAAATTTTGAATTTTCAAAGGCCTTTANTNCGGAATACCCNGTTCTNGACNCT
TTCNTAAGGGGGGGGGGNGCCCCGNGGTTTACCCCAAGCCTTTTTTTTTGGTTTCCCC
CCTTTTTAAGNTGNAAGGGGGNTTTTANAATTTGGCNGCCGNCCTTTGGGGCCGGTAAA
ATTCCNATTGGGGTTCCATTAAAGNTCCTTGGTTTTTTTCCCTTTGNTTGGTTGGGAAA
AAATTTTGGTTTTTAATTCCCCCGGCCTTC

Sequence 3400

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGGTTTATCTCCTATTG
GGAATATTTTCTTTATTATTAAGGGCCGGTTTNATTTTTTTTTNCTTTTNTTTTNTNTGGG
GNAAGAAACCAAGNAAGNTTCTTTTGGCCTTCCTGGGTGGGGCGCCCAAGGGTCCTGGN
GNAAGNTTGNCCAAGNNTGNNGCCGTCCGGAACCTGGGGGAAGGCCTTCAACCTTGGCCA
AAACCCCTNCGCAACCTTTTGCTCCCCGGGGGGNTNTTCCAAAANGNGTGGGAATTTTTG
GGTGCCCCCNAACCCCTTTNNAAGGCCCTTTCCCCCTTGGGAAAATTAAGGGCCTTN
GGGGGGGAAATTTTAAATTAAGGGGGGTGGNCCAATNGGCCTTNACCCCAAATAACCC
CTNGGTTCTNTTCTTNAACCTTAAANAAAAAATTAACCCANAAAAAATTTTNGGGTT
TTTTAAAGGCCCTTTCTTGGGTNTTTTTTTTTTCCAATTTAAATTTNAAGGGAAAAAA
ATTAAAGNAAAAANAAANGGGGGTTAAAAAATAATTTTGGGCCTTTTNTTTTNTCC
TTNTTNCCTTGGGAAAAAANGGAAAAACCAANANGGGTTTNATTTTNGGGTTT
TNCCAATTNCCNCCCAAAAAANAAAAAGGGGGGGNTTTTTTTTTTTTGGGGTTTGGGA
ACCCTTGGGNAAAATTNCCNAAAGGCCCAAGGGGGTGGGCCCCCTTGGGNCCCCCTT
TAAAGGTTTCCAANTTAAAGNNCCTTTGGGNGNGNCCTTTTNCCAAAAAATAAAC
C

Sequence 3401

ACACACAGCCAGGCGCTAGGGCTCCCTGCGGGNGTACCTCAGNGTGTAAGGGNGNGNGTA
TAGTAGTCCGTTTCTATACCATATTGTTTTACCGGGTAGTGNGTTNCTCCAAGTCNCCGT
CNTGGGGGGGTTCAGTATTTGGGTANGTACCANATATCTCCAATTTGGGTGTTGGNGTT
TTGGGGGNTTTCGGGGGGGTCCAAGTCCNAAGGGGCCTTGGGNAAGTNAAGGGGGGTN
TTCTTGGTTTTNCCTTTTTTTTTTTNGGNAATTCGAATTTTAAATTNCCGGTTTTTTG
GGGGGGNGGCCCCCCCCCAAATGGGGGGGTAAAGGGGGGGTTCCTTTTTTGGGGGG
GAAAAGGCCCAACCCCTTTGGAANNCCCCCCCCCAAAAAANGNCCTTNGGGGGGAAAA
AAAANTTTTCCCCCTTCCAAGGNAAGGCCTTTGNCCNTCCAATTTGGTTTCAAANGGGGA
AAGGCCCTTTTTCTNTTCCAACCTTGGNNTTTGGGCCTTTGGNNCCTGGGGTTTCC
CCAAAGNGGGGGNTNCCNCCCTTTTGGNGNNTCCNGCCTTTCTTTAAGNAAAAAN
CCTTAAAGGTTGNGGNAAAATTCNCCNCCCCCGGGGNGGCCCTTGGTCCTANTNGGGG
AAAAATTTTCNGGAANTTNANTTNCCAAAAAGG

Sequence 3402

AGGTACCGCANGGGAAAGATGAAAAATTATAGCCAAGCATATATTATTATGTCAAGGGGT
ACNTTATATCTCTCCTTATGACTCNTNTTNCNTNGTCNATGATAATGGNATACTCTTANAN
CNTTATGNNAACAATTATATCCTNTNTGGNCAAAGNGTAAGTAAGNCTCCANATAGGTC
NTNATATGTAAACNCCNCCCGTATANANCTCCAAGNGANCCGNAAGGNCCTTAACCTCCTT
AANAGGGAAAANCCAAGNNCNTTTTTTANAANAAGGGAAAGGCCCAACCAANCCCCCGG

Table 1

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TTTCTTTANTTTGGGTAAAGGGCCAAAAAAATTTAANGGTTGGGGGGGNAAAAAGG
GNAATTNTTTAATTTACCGNGGTTNGGCATNGGGGCCGAACCANANAACNCCTTTAACC
CCGGGAAGGCCCCCTTGGGGGTTTGGGAAATTATNGGCCTTTGNGGGTTTGGTTCCCCC
AAAAGGNAAATTAAAGGNNAAAATTCNTTTTAACNGTTTTTCCAAAAACCTTTTNTTT
AAAAAAATTNTTTNGGGCCCCCAANCCAAGGCAANANCCCCCCCCCTTNCCTTAAAAAA
NTCCCCCCCCCTTNTGGGGGTCAAAAAAATTNNTTTTAAAAAACCTTGGGGTTTTT
AAAGGTTTCCCCCAAAAAANTGTTAAGGGGGNNAAAAACCCCAAGGTNCCTTTCNNTT
TTTTTGGGGGGGAANCCAANCCCTTAATGGNGGGGAANAANAAAAAAAACCC

Sequence 3403

ATACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGGTGAACAC
CTGGGGCAAGCTTCTATGGCCTCCCCCGGGGTTCTGGGTGGGTATGGTTTCCCGTTG
GTGGTTTTTTGGGTCNCCACCCCGGCNACCCCGTTAATNCAAAGGTGGCCTTCAAATTGG
GTTGGGGGCCCTTCCCGGGNAAAACCTTGGGNCCTGGAAAAGGGGAAGGGGGNCNCANC
NCCCCGGGGTTGGAACCAATTCTCCGGAAGGCCCCCTTTCNAACCGNCCCCCAAGG
AAAACCCCGGGGCCCGCGNTTTCNTTAAAGAAAAACCTTNAGGTTTGGGGGAAATTCC
CCCCCCCCCGGGGGGNCCTTTGGGCCNAAGGGGAAAATTTTCCGGAANTAATTCCAAA
AGGCCTTTTTAATTCGAATTAACCCCGGTTTCCGGAACCCCTTTNTAAGGGGGGGGG
GGGGCCCCCCCCGGGGGTTTAACCCCCCAANNCNTTTTTTTTTGGGTNTTNCCCC
CTTTTTTTAAAGTTNGGAAAGGGGGGTTTTTAAAAAATTTNGGCCCGGCCCGGCCCTT
TGGGGGGCCGGNTTAAAAATTCCAAATTNGGGGGGTGCCATTTAAAGGNCCTTGGNTT
TTTTTCCCCCTTGGGTGGGTGGGAAAAAAAATTTTGGGTTTTTAAATTTCCCCCG
GNCTTTTCCAACCAAAAAATTTTNTCTCCCAACCCAACCAAAAAACCA

Sequence 3404

CGGGAAATCGTGCGGACATCAAGGAGAAGCTGTGCTACGTCGCCCTGGGACTTCGAGTC
AGGTAGTATGNGTCTCGCTCGTCTCGTCATGCCTCCTCTCTCGGNAGNAAGNAGCCTA
CTNAGCNTGCTCTCGTATGGGCCCAGGGTCATTCACTCAATTNGGNCANATTGGAGGCGG
GTTTCCCGGGTGNTTCCCGGGGAAGGCCGCCTTGGTTTCCCAAGCCCTTTTCCCTTTTN
CCTTGGGGGTTAAATTGGGGAAATCCTTTGCCGGGCAATTNCAACCGGAAGAACCACCC
TTTTCNAACCTTCNCATTCAATGGAAAGTTGTTGGAACCGTTGGGNAACCATTTNCCGGC
TAAAAAAGNAACCTTGGTTTACCCCTTCNGGGCCCCGCTTTCNTAAGGAAANCCTTAGG
GTTGGGGNANTCCCCCCCCCGGGGGGCCCTTGNCCAAGGGGGAAATTTTCCCGNAATTAA
TTNCAANANGGCCTTTTAATTCCGGNAAATTAACCCCGGTTTCCNAACCCCTTCCGAAA
GGGGGGGGGGGGGGGGGCCNC

Sequence 3405

AGGTACCCCTCCAAGCCGGACAACCCGGNGCGAGGGTACCGCACTCAAGTCNGGGTAGGG
GNACNATTGGGGGCTCCAGGATTACCTNATCCTTCAANGNCCGNCNTGGNCGGNACCACC
TTACCAATTCAANACCCCTTCAATTCANCTCCAGGGNCCAGTAAGGATTATTGGGGGANA
AAAAACCGGAATGCCTTAAGTCNCCCCAAGGGAAGGGACCAACCTTGAATNTTTTCAA
GGAACCCCTTCCCTTTTGGAAATTGGAAGGAAGGGAAAAAAGGGCCACCCAAGGGAA
AAAAAAATNGGTTTTNCCCCCNAAAGGAAAAAACCTTCCGGGGGGCCTTTTTTGGGNAAA
AAGNAACCCCTTTGGCCAAAANTNGGTNGGGGTNGGAAATNGGGGGGGAAAAAAATTG
GGAAAGGNAAACCTTTTGGGCCTTCCCTTCCCTTGGGGGGCCCCCTTTTTTTTTTNCNCCTT
TAAATTTTTTTTTTNTCCAAGGGCCCCCCCCCAAAATTNAATTTTTTTTTTTCNAAATTNCC
GGGTGGGTNNAAAAAAAACCCGGGAAGGNAAAAAATTTNCNCCCAACCCCCCCC
CCAAATTNCCNCCTTTAAACCCCCCAAAATTTGGGNCCAAATTNGGGCCCAAGGGGCC
CCAAACCTTNGGGGTNGGGGCCCTTTGGGGGAAAAAATTTTTTCCNTTGGGNCCCAA
AAAATTGGGGGTTTTTTTTTTTTCCCCCCTTTTTTTTTGGGGTTTCCCAAATCCCAAATT
TTTGGGGGNTNAANTTAAATTAAATTNGGGGGTGGGGGNTTGGGGTTTTTTTTTAAAA
AAAAATTTTAAAAAAA

Sequence 3406

AGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGGGGTCTTTTTTATNTTCGGACN
CCGNCGGNATGGNATGGNTGGGGNCNTTCTTGGGGGAAAAGGNGCCGTTTGTAAGTCCCA
CNTNTCTTTTCCCGNCCGTANACNTGGGGGCTCCGTAAGGGNAAGGAAAAGTCCGNCCGT
AGGGGGGNCCTTANCCGGAAGGCCGGTGCTTNCCCTTGGAAAAGGAATGCGCCAAAAAAA
AAACCCCAAAGNCCCGGTTGGGGNCCGGGGGGCCCCCGGCCTTTCCTTAAANGNAAAACC
CTTAAAAGGTTGGGGGGGAAATCCCCCCCCCCCCGGGGGGGCTTTGGGCCAAAAGGG
GGNAAAAATTTTTCCCCGAATTAATTCNAAAAGGCCCTTTAAATCCCNAGNAATTAACCC

Sequence 3411
CCGGGCAGGTACTGATGACACAAACATGGCAGACACTTTCACCGAGATTATGACCATGAT
GTCGCCTTCACAGTTCTTGAGTTCATCTCCTTTGAGAATGACAAATAATGAAGACAGTCT
GAGTCCCACCANGCAGCACTCTGTNAAAACCCCTGGGAAACTTGGATTGGCCANCCNGAA
AAAAGGGGAATTTCGGCCAANGCCTTTTTCANGGGAAGTAAATAGGAAGAAAGGNCANATAT
TCCGAAAAGTAGNCCTTGTAANGTATGGGNAAAACCATGGGTAANCNAATGNAAGNCNAG
GAAGTGGCTTNNGNTTGGGGANAGGATGGCTTNGTAAAAAATTGNCCANACCTTTNGGN
AGGGGTTTTGNAAAAAAAACCGGATGTGGGGCCATGNCCANGNCTAAGGCCGGGGCCAC
NCNCTTTGNGNTAAAAGGCNCNCCAAGGCNCCNCCAAGTTTGGCCCCCNCANGGGGTTT

Table 1

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CAANTTTACCTTGGTNCCAAAGGGTTCNATNGTAATTCCAAGGCAAAGNCCNANCCGGGG
CATAGGGCCCCCTTTTGGGGACTTTCCCNNTTCCCA

Sequence 3412

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTATGGGAAAGTGAACACGTT
CTGTGACAGGAAACATCTCTGTCCATGCCAGCATAGTAGTTGTATGGACTTCTAACCAGT
TGAGTTTTTTTAAAGCATTGAGGATTTTTTTCCTCTTACCAACTCCTCTTCAGGTTTTTAAA
GACCCANCCCCCTTNCCAATCTCAAAAGAGAAAAAGGAAACTGAGTTATCTTGAATAACAT
AACTTTTTTAATCAAATGTTTATTTTGGCTTGTGGATCTTGGTGTATTTAAAAAATTGAG
GTGATGGTCATTGCAAGCTCATCTATTAAGTACGCGGGCTCTCGGCCTTAGCGCCATTTT
TTTGGAACCTCTGCGCCATGAGAGCCAAGTGGAGGAAGAAGCGAATGCNCCAGGCTGAA
GCGCAAAGAAGAAAGATGAGGCNGAGGTCCAAGTAAACCCGCTAGCTTGT

Sequence 3413

CCGGGCAGGTACGCGGGGCTTCTCGCCTAACGCCGCCAACATGGTGTTCAGGCGCTTCGT
GGAGGTTGGCCGGGNGGCCTATGTCTCCTTTGGACCTCATGCCNGAANATTGGTCGCGAT
TGTAAGATGTTATTGATCAGAACAGGGCTTTGGTCCGATTGGACCTTGCACTCAAGTGAGG
AGACAGGCCATGCCTTTCAAGTGCATGCAGCTCACTNGATTTCATCCTCAAGTTTCCGCA
CAGTTGCCACCANTAAGTATGTCCGNCAAGNCCTTGCCNGTAAAGGCATNACATCAAT
ANCAANTATGGGCAANCTCACACCGATGNGGCCCATNGNAAGTATTGGAAGNNCAGNAAG
AAAAGGGAAAANGCCCAAGGATGACAGGATTTTTTGATTGCTTTTTTAAAAGTTTAATTGA
AAGGGCAAAGAANAATGGANGGANACCAGAAATAATTCAAAGAAATGGAAAGTTTAAA
GGAAAGCCTTCAAAAAGGCANGCCTCTTCCTGGAAAAGCCTT

Sequence 3414

CTGCCGCCCGGGCAGGTACTTGACCCACAGCCATATGAGCCACTTCTCAGCCACCATGT
CTTCAAATTNATNGACATTGAACTAGGAGAAGCCCCATTTCTTTGANAAGTGGATCGTCT
GGCAGCCAGAGAACTTGAACCTGGCCCTGTGCAGGGCCTTAATTCACAATGCTTCCCTNG
TTCTTGACAGCNTTNGGTGGCGGGAACGGGAACATGGGGAACNTTNTGCNCAAATTGTGGA
CNCCCCCTTGACCCAACAAGNGGCCCTTGNGGNGGCTTTTTTCCAATAGGGCCACNTTC
GCCATTGCCCTTGTTTTTGANAGGCCCTTACCATTGTTGGGGGGTTAAATTGGCCATACGG
GNTCCATGGAAGGANCAATTGNAAAACNATTAACCAATTTCTTGGAATNAAGGGGCCCCN
TNANTTTAATTCCAAAANGGNTTNCCCCCTTTTANAGNAAGNCCANAACCCCTTTAATT
ANNGNAGGGGGAAANAACAAGGGGGNGTTGGCCNNTTTNNCAANCNCCAACCCCAAANGG
GGAAAAGGCCCTTGGCTTTGGTTTTTTGGCCAAGGGCCCNATTTTGNCNAACAACCCCTNG
GGGGGCCCCCCCCCANTTAAAGGGGGGAAANAGGGGAAA

Sequence 3415

AGGTACTCTGGATATGGGAGGAGCTCAGGGTTGTTGGCTAAGATGTAATTTTAAGGAAAC
ACTTTATATTTTCATACCAAGTAAGAATTTCAATGGCAATGAATATTACCACATAGCTGTA
TACTGTAACCTCAGGGATTCTGTCTATATGAAGTGCAAACATTACNCGNNGCTTGTAACCAT
CCANAGTCCCAGGGGTACATTTGGCATGCCANAAAGNTACTCTGCCCGGGNCGGCCGCT
CTAGAAACCTAGTNGNNATCCCCCGGNNCNTGCANGGNAATTTTGAATATTCAAAGCCT
TATCAGTATAACNCGTTCNNACNCTTCGGAGNGGGGGGNNCCCCGGTTACCCAGCTTTT
TGGTTTCNCCCTTTTTAGTGGAGGGGGTNTAATTTTGCCGCGGCTTTNGGGNCGTTANATT
CATTGGGTTCATTANGCCTGGTTTTTCCCTGTTGNTGGAAAAAATTTGTTTATTCCCGG
CATTCACCAAATTTNCCACCAACAAAACCATTACCGGAGTCCCCGGGGNANGCCATTAAN
AANTTGGTTAAAAAGNC

Sequence 3416

AGGTACCAAACCAAAGCCGTCATCATTGCANTGATCATCACTGCGGNGGTATCCATTTCA
GTCACCATCTTCTGCTTTCAGACCAAGGTGGACTTCACCTCGTGCACAGGCCTCTTCTGT
GTCTTGGGAATTGNGCTCCTGGTGACTGGGGATTGTTAACTAAGCAATTGTGGCCTTNTA
CTTTTCCAAATACCNTTTTACCTGGGNCTTCCCAACANTGCCTTCTAATTGCCNTGCTTN
CTNGGGGGGGCCCCANTTTTGGTGTTTCAANCCCCCTTGGTTTNCTTGGGCCNTTTAACC
GACNANCAACCATGGCTTTGGGTCTCTTTGGGGGGGGAAAAANCCCCGNGNANANGACCA
NCAANCTCAATTCCATNNTCNCCCCGNGGNANGGGAACCTTAACCAANTTCAACTTTGGGG
CCGGCCCCCTTGGCCNANGNAATTTTTTAACCATCCAAGGGACCANTTCCAATTCCCTTA
NCCAATNNCCTCTNCCANCCCCNTNTNTGNTTNGGCCCTTGGCCAAGGCNTNGGNANTGGG
GGGG

Sequence 3417

AGGTACAGTGAAACTGCGAATGGCTCATTAAATCAGTTATGGTTCCTTTGGTCGCTCGCT

Table 1

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CCTCTCCTACTTGGATAACTGTGGTAATTCTAGAGCTAATACATGCCGACGGGCGCTGAC
CCCCTTCGCGGGGGGGATGCCGTGCATTTATCAAGATCAAAAACCAACCCGGTCAGCCCC
TCTCCGGCCCCGGCCCGCTCTAGAAGTAGTGGGATCCCCCGGGCCTGCAGGGAATTTCTGA
TATTCAAAAGTCCTTATTCGGATACTCGTTTCGACCTTCGAGGNGGAGGGGCCCCGGTTAC
CCAAGCTTTNTTNGTTCCCCCTTTAAGTGGAGAGGNTTAAATTNGCNGCCGCCTTGGCGGT
AAATCAATGGGTTCATAAAGCCTGTTTTTCCCTTGTGNTGAAAATTTGGTNTATCCCGGC
TTCAACAAAATTCACACAACCAACCATTANCCGAAGNCCCGGGGGAGGCCATTAAATAGG
TGGTTAAAAGGCCCTGGGGGGTGGCCCTAAAATGGAAGTNGAAGCCTTAACTTCAACAT
TTAAAT

Sequence 3418

CCCGCGGCAGGCNGCCGNGGNACGCGGGGGCTGATGCCATTTTCAGCCTCAGCACGCCTG
CACCCAGGCGCTCATTAAACAGCATGTTGCTCCCCACTGCCTCGTGTGTCTGTTGGCG
CGCTGTCGGGGTTCGAACCGATAACAAGAACCTTCCACCTACCTGGTGCTTTGGNCTCATC
TATAAGCGGCCAGTCATCTGCCCTAAGTGTGCTGCCGCCGAAGACTGAATGTCTTGAAAGT
TTGCTGTACATCTCCATTATGACAAAAGCATTGTGCCGAACAGATGAAAAAATGCATT
GTCAACGGAATCTTTTATGTTTGGTGTCTTCCCTTAAGCAACATTGCCTTACTTGTTTA
TAAAAGATAAATAAATATTTGTTTCTTCTAAAAANANANAATCCTANTANATAAAANG
TACCTGCCCGGGCGGCCCGCTCTTAGAAGTAGTGGGATCCCCCGGGCT

Sequence 3419

AGGTACGCGGGATGAAAGCAAAGAGAAAGGATGGAGGCAAATAAAAAAATCACGTTT
CAAGAAATGTTAAGCTCTTCTTGAACAAGCCCCACCTTGCTTTCCCTTGTGTAGGGCAA
CCCGCTTGTCCCCCGCGCNCCTGNGTTGGTCANNGCTTNAAGGGATTTTTTTTACCCTCA
CACTTGTTCATTTTTTGCCACAAGCAAGATATGANAAAGACTTGTTTTATTATTAAACAA
GCTTTATTTTATTGTATTAAATATTTAAGCTTGGGNAAGGGACCCAAGNGTCGCCAANA
AGNCCTTCTCCTCTTGTGACCATTGGTNGAACTTCTTNGTNCAAAATCTGGNAAAGTA
CCAAGNGGAACCAATTTTNANNATATNGAANGTAGGCCCGCANGGAAGGNAAGGAAAGNA
AAAAAACCAAGGTTTTNNCANTTAAATTTTAAACCTTTGGCCAACCCAATTGGTGTGTGT
ACTTTCTNTTNTTNTTCTTNTTNTCCNANNTACACNNCANCNCTATNATANAACAATTTAT
GGGGTTTTNNCCCCCTTTGTCCCCCCCCGGGGGGCCCCGGGGGCCCGNCCTTTCNTTNAAAAA
ACCTTTAGNGGTGGGNGGANTTCCCCCCCC

Sequence 3420

AGGTACGTTCTTGCAATGGCTTCAGCCTCATCGGGGCCCACACGGACAGCCCCCTGCCTN
CGGGTGAAACGTGGTCTCGCCGCAGCCAGGTGGGCTTCCAGCAAGTCGGTGTGGAGACC
TATGGTGGTGGGATCTGGAGCACCTGGTTTGACCGTGACCTGACTCTGGGCTGGACGCCG
TCATTGTCAAAGATGCCACTACANTTAGGTCCGGTTTGGAAGCAGCAAGCTTGGTGGCAC
GTGGGAGCCGGCCCCATTCTTTNGCATTCCCACACCCTGGGCTCATTCCTCATNTTGCNA
GCGNAAATANTCAATCNGAGNNAACCTTTTGGGGGGCCCCAAACCACCAGGAAGAATGNC
ATTCTTAGTTCNCCCCATTTCTTTGGCCACCANGCCCAATTCTCAAAGGAAGGGAAGGC
CTTGGGAAGNAAAGGGGGGGAACCTTCNCTTGGAAGNCCCANGGGGGCCCCCTNNTTCAAAA
NTGCCNTNGTNGGGGATTGGAAGCCGGGCCAACCCTTTTCCGG

Sequence 3421

AGCCCTGCAGGCCCCCTGCCCTGAAGGCCTGGGGCGGGAAGAAGGAGAACCTGAAGGCTGC
GCAGGAGGAGTATGTCAAGCGAGCCCTGGCCAACAGCCTTGCTGTCAAGGAAAGTACCT

Sequence 3422

GCTTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTCGGAAATAAACTATTTCCAGACT
GATACTTCAGTGTTTCCTTTTATTTTTTATAGCGTATAAAAGTTTCTGAGGTGGGGCAA
TATTTTGATAAGAGTAGTCGTTTAGCTAAAACTAAGTAACATTAAGGAAACACATTGTCT
GGTCTTAATATGTTAGTGCAACACACAGTATATATATGTTTAAGCAACTATTGGTGAGTG
GGGGCTACAGGGATTACCAGGAGATGATCTCTCAATTGAGAATGGCATTATTGTGACAAA
GGCCACCAGATACCCACTCCTCATAGACCCACAACTCAAGGCAAACTTGGATTAAATC
AAAGGAAAAAGAAAATGATTTACAGGTGACATCTCTGAACCATAAATATTTTCGCACACA
CTTGGAGGACAGCCTTTCTTGGGCCGACCCCTTCTCATTTGAGGACATTCATGAAGA

Sequence 3423

AGGTACCTTCTGGACAATTTCCAGAACATTGAATTTGCCTATCACTAAGATGTCAAATAC
CGCATTTAAACCCAGCACAGTGATCCCTTGCTCTTTGCACAGCATGGTCCACTGCTCCCA
GAAAGATACTCAGCAGCACCCAGAAGGGTGGAAAGAAATGCCGCCTCCCTTCCCTTGGTT
AACTTTTTTCNTCNAAAAATTGCCTTTTACANGTTAGGCCCAAAGGGGAAAAGGAATNAAT

Table 1

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CCANANGNAAATGGAAACCAAGNGGGGCCNACCAANCAATGGGGGAAGGGGTTCCTTTGGA
 CAANCCGNGGGCTCCNGNCATACCTTAAGGAAAAACCTTAAGNNTGGGGGAAATACCNCC
 CNCTCCGGGGGNCCTTGGCCNANGGGGNAAATTTTCCGGNAATTAATTTCCAAANGGGC
 CTTNTTANTTCCTGNAATTANCCCCCGGTTCGCCGNANCANCTTTCANTANGGGGGGGG
 GGGGNGGGGNCCCCCGGNGATNANCCCCCAANTCCTTATTTTNGTTNTTCCCCC
 CTTNTTTAANGACTNGNAAAGGGGGGGATATTAANAATTTNGNCCNGTCCCGGGCCTTTT
 TGGGNGCCGTTAAAATACCAATTGGGGGGTTACCANTTAAGNTCCTTGGTATTNTNNCC
 TTGGTTGGTTGG

Sequence 3424

CCGGGCAGGTACGGAAGTTCCCCTGTTCCACAGGCAATGCAATTACCTCGGCCACTTCG
 TAAGGGTGCACAGAACGAACAAAATCTGTCAAAGCTGGGACCAAGGAACCTTTGGGTTTTA
 ATCATCATCAGCACCTCACTGTCTTCCTCGATCTTTCCTTNTCCACTCATAANATTGGAN
 TGTAATTTCTGAGGGGAATGAAGGTTTGTACNCCAGGGCTTGNATTAAGGGCAGCTTTTC
 TCCCAACACACCGGGGACACTNGGNCGAATGCTNCCATTGGGGCCGAACNCATTNCTNCNN
 TGNGNGGGGGCCANAGGTTATAACCAAAATAGNGGNCTTGNCTAAGNAAGAACCCCGGAA
 GNCTCTCGGGGAAAACCGTTNAGCCNCCAGTAAGNCNCCGGGNAATTTCCNCGGAAGGGG
 CCCCAGACCGNAGGGNGCCNTGGGGGTTTCCCGNGNAAGGGGGCCTTTTCACAGNGAAGG
 GGCCAGTGGGNTNCCAGGCCANANGGACCTTCNGGGNGGGGTAGGCCAAAACCAAAAA
 A

Sequence 3425

CCGGGCAGGTACCACTGCACTCCAGCTTGGGAGACAGAGTGAGCAGAGTGAGACCAATTC
 CTGGGAAGCCACANGGAAACCAAATTTCTAGTAGCAACTCAGAGTCAGCATTCATTAGCAG
 GTCACAGGGCCATAAGGGATGCCCAANAAGGAAATTTCTGGTTCCCTTCTNCCNTTGGTNC
 CTGTTANGTNCCCCCAGCTANCNTCAAAGGAAGNACCTGGAAGGGCNAGGGGANGAAATT
 TTGGCTTTTAAANACCCCCCAAGNGAAAGGNCCGTGNAGNGGNTTTGNCAANTTGGNAGN
 CCCCCTAGGGNTNTCTGNCGGCCTCAATTTTGGCCAACCTTTTCCANGTCTCCTTGNCCG
 TCAATACCAANAGGNAAGGGGNAATTTGAACCTTCCTTNTCTTTCCAAAAAGGGCCCCAA
 CTCCTTTTNTTTCCCTTNTTNTNCTNCCNTNCTNCTTGGGGGAACCTTGGNTGCAA
 CNAGGTAATNCCCCCTTNCNCCCTTCTTGNTNAACCCCTTTCGGGGACTCCGTCTTTCNTTA
 TGGNAANCCCTTAAGGTTGGGGAATTTCCCCCNCCCNGGGGGCCTTTGGCCAAGGG

Sequence 3426

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCATCTCCT
 CGAACATAAAAATTTTCAAGATAACAATGTCCCTTTTAAAACGAAGCTGAGTCTTATC
 ATATCTTCCATAGTCTCGAAATAACAGCATTTCCCCCAGGTTTCAGTAACCTGGACAGTCG
 GTTTACAACACCTTGCATCCTGTCCGGGATGAATAGAAGAGAGCACAAAGACAAGGAGAA
 TGACATCCAGGATCCCATCTGGAAAAGGGTAAGGTAAGCCATCATCACATACATCATGAA
 CAAAGGCAAAACACTGGGTGCTCTGTAGGACGAGTGTGACTTTACGAGCTCCACAGCTC
 CAGAAGCAAAATCACAACAATACAGAAAGGACTCCGGAGAGTTCTCCAAAGTGTTCAAAA
 TTGGAAACACACTATTTTCAGCTCCACAACCAACCNTTAGTATCCTGAAAGTGGCATTGC
 TACCAGGGAAA

Sequence 3427

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGGGCTGATGC
 CATTTTTCAGCCTCAGCACGCCTGCACCCAGGCGCTCATTTAAACAGCATGTTGCTCCCCA
 CTGCCTCGTGTTGTCTGTGGCGCGCTGTCCGGGTTTGAACCGATAACAAGAACCTTCCAC
 CTACCTGGTGCTTTTGGCCTCATCTATAAGCCGGCCAGTCATCTGCCCTAAGTGCTGCCG
 CCGAAGACTGAATGTCTGGAAAGTTTGCTGTACATCTCCATTATGACAAAAGCATTGT
 GCCGAACAGATGAAAAAATGCATTGTCAACGGAATCTTTTATGTTTGTCTTCCCTT
 TAAGCAACATTGCCTTACTTGTTATAAAAAGATAAAATAAATATTTGTTTCATTTCTA

Sequence 3428

CCGGGCAGGTACGCGGGATTTTAAAAGTAGACGGCCTGCCACGGGGATGAAGAAAACA
 CATTTACTGCGGGCGGGGGTCTGAGGGCCTGCAAACAACCTCGAGCTGGAGCCTCGGCCAG
 GACCGGCGCGAGAGGCGGTTCTTGCTATATTGCCCCAGGCTGGTCTCGAACTCCTGGGCT
 CAAGCCGTTCTCCCGCCTCCCCTGCCCCGCTGTCACTGCCGTCTGTTCCCTGAGCTGTG
 CTTTACGCTGGGAAAGACATAGAAGAACTATTAAGAAGATAGAATTGTTTTGCTGCGCAG
 TACCTCGGCCGCTCTAGAACTAGT

Sequence 3429

AGTTTTCCAAGANATAACTTCACCAAGATGTCCAGTGATAGGCAAAGGTCCGATGATGAG

Table 1

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AGCCCCAGCACCAGCAGTGGCAGTTCAGATGCGGACCAGCGAGACCCAGCCCGCTCCAGA
GCCCTGANGAANCAAGAGGAAAGAAAACCTTCTGCCACCCAGCAGAAGAAAAACACCAA
CTCTTTAGCAAAACCACTGCTAAGTTATCCACTAGTGCTAAAAGAATTCAGAAGGAGCTA
GCTGAAATAACCCTTGATCCTCCTCCTAATTGCAGNGCTGGGCCTAAAGGAGATAACATT
TATTGAATGGAGATCAACTATACTTGGT

Sequence 3430

GTATCGCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAGCAT
GTTGCATAATATATGCTTATGTAGCTTTCCAGGACTAACAGATAAATGTGTAATGAACAA
AGATATGTTGTATGAGTCGTCGTTTCTGTGATTTGTATTGTTTCCAAGGGAAAAGCTT
GGGGGAGGACTCAGTTCACAAAATGCAAACTCAACGATCAGATTCACGGACCCAGAGCT
TTTCCATGTGTTTATATTGTAAATATTTTTGATTTTCATCAAATTATTTATTCATTAAG
AAATTTTTGTGAAGCACAGTGAGTGACAATCATTTTTCTTAAGGCCTGGAAACGATTTTC
TGTATGATGTTACTTTATGTGAATTCTCATCTCAATAAATGATG

Sequence 3431

AGGCACCTGTGGTGGATTTCCAGGCTGAACTGAGGCAGGCATTCTTAGCTGAGGCACCAA
GAGGTGGTTAAAGCCATATTGGAGTAGCGAGGAATCTGATTCCAAGCAAAAACAGGCTC
CATCTACTCTTTGAAGCTTCTGCCCAGCTTGCATTGTTTCTAGGAGAACCTGCGTCATAC
CTTTATCTATAGCCTTCCCCTAGGCTTTCAGAAGCATCAAGTTTTAACTGTGGACATTGG
ATTTGGTGGAACAGCAATCATGACTGTTGGCAAGAGTAGCAAGATGCTGCAGCACATTGA
CTATAGAATGAGATGTATCCTGCAAGATGGCCCGAA

Sequence 3432

GGGCAATTGGAGCTCACCGCGGTGGCGGCCGTGACCGTGGCTCACGTGGCCCCCTAAGTTT
CCGGGTCTTCCTCAGTCTGGATGGCATGTTGGCAGCCCAGACGAAAAAGCCCCGCGTACC
T

Sequence 3433

CCGGGCAGGTACCGGAAGCAGCGAATGGAAGAGATGCGGCAGCAGCTTCACAAGGGGCCC
CAATTCAAGCAGGTTTTTTGAGATCTCCAGTGAGAGAGGTTTTTTAGACATGATTGATAAA
GAACAGAAAAGCATTGTTCATCATGGTTCATATTTATGAGGATGGCATTCAGGGACCGAA
GCCATGAATGGTTGCATGATCTGCCTTGCCGCAGAGTACTGTTTGCATTAATAAATTA
GCTCCATAGGGTCTTCTCGTCTTTGCTGTGTCATGCCCCCTCTTCACGGGCAGGTCAAT
TTTCACTTGGTAAAGTAANGGACAGCTGACCCCTCGTGGAGCCCATTTCATACAGGTC
CCC

Sequence 3434

CNCTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCATAATTTAATAACATCGT
CCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTTCAGTAGTAAACAGAATTCTAGCA
GGTGGAAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTG
CAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCC
GCTTTAGGCTGCTTTCCCTACCCGGCTCCCCCGCGTACCTGCCCCG

Sequence 3435

AGGTACGCGGGGGGAGGCGAAGAACGCAAAGCTGAGAACATGGACGTTAATATCGCCCCA
CTCCGCGCCTGGGACGATTTCTTCCCGGGTTCCGATCGCTTTGCC

Sequence 3436

AGGTACCTCCTTCAGCGGAAGGCCTCACCACCCACAGTGTGAATCCTGAGGTGCCGTCAT
TGGCGGTTCTGCTGCTTCGCTGCAGGGATAAGGTGGAGCTACCGAACAGCTGATTCATAT
GCCAAGAATTTTGGGGAGTCTTCTTTCAAACCAAGTGGGGGGTTTGGGACAATGNAATTGT
TAGTTTAACATGGNTTCTGCCTCACCCTCCAGAAATTTAAATTTCTATTTGTAAAAA
AGGGAAAATATTCATNCTAGATTTCCAGGCCAATAATATATTANTATATACNGNATN
AATACAGATAATATATATANANANAGANATATAGANAGTTTNTCNCCTTGNCNCCCCCGGG
GGACCGNGGCNCGGCTTTTCTTTAANAAAAACCTTAAGGTTTGGGNTATTNCNCCCCCN
CCGGGGNGTCNTTGGTCCAAGGGGAAAAATTTTCCNGAAATTNAATTNCAAAAGGGCNT
TTTAATTTCCGGAATTAACCCCCGGGTACNNGAAACCNCTTCCGTAGGGGNGGGGGG
G

Sequence 3437

CCGCGGTGGCGGCCCGCCCGGGCATGGTACAGGGGAAAAGAGCTCTCCATTTCTCAGCAGG
GGACACCCCGGTCCCCACTGCCACTTTGTTTGCCTCCAAGGGAAAAACCTCTCAATACC
AGGTCCAGGAGCAGCTGGATGGGATCACTCAGAACCC

Table 1

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Sequence 3438

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACTGACTGGTTGAGCCGGGTAGGGA
AAGCAGCCTAAAGCCCCGGGACAGGCACACAGGCCAGGTGTGTAGGCCACAGCAGCCGCA
GTCCTGAAAGGCTGCAACACCCAGACCTCCANGANAGACCAAGGCCCCAGNATGCCTNGC
CTGTTCTTGTTCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTC
GCGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3439

AGGTACGCGGGGGCCACGTCCAAGCAAACCGGGAAAGGAGAGGATCCCGGAGCCGCGTGA
TGGCCAGAGGCCTGGGGGCCCCCCTGCGGTGGCCGTGGGACTGCTGACCTGGGCGACCT
TGGGGCTTCTGGNTGGCCTGGAACCTCCGGGGGGGTATTNACTTACCCTTGCAACGACNG
ATTCTGCAAAGNAGGNACTTTNCATTGGCCACAGTCCACAAGGNCACGTNAACATGGAAA
GNATTTTTCACCCATTGGTNCACCAGCACATTGNCCNCAATGGCCATGGGTNCACACTTCA
TCGTANTAAGCCATTNTTGGGCATTGGGACAATAACCCCAACGNATTCACNGAACCATTGN
GACCATTTTCACATTGGAGGGGATTTTTACCACCCCATTTGGGGCNCAATAAGGCNCAATT
GNGGCTT

Sequence 3440

AGGTACGCGGGGAAAGAGCCTAGTAAAGAAGTCACAGCCTGCAATGAAAGCAGAGAATTC
TGATGAAGAATAGATCTGACTTCTTTTCATTTAGGACCCAACTTACCATATCTGATTTATT
TCTAGGTAACACTTGGGAGNCTTGACCTCCCTTGGGNAAGNAGAAGGCCCAAATGGTTA
CANATGCAACTTAATGGGNATGNCACCCAAGNATATTATTGACCCCTGTCCTGTGGGGGA
CCTGTATGGGGAAAATAACTTTTATTCCCCAAATGAAATGGCCCTGGTTAATGTTTTTNT
GGAAAAAATTCGGGAAAACGNCCCAGGACATTTCTTATTNCCTTNNAATTTCAAAAAA
AATCTTGGGGCNCTTTGGCNTGGANAAACCCAAAGGGTTTTTTGNAAAATTTCCCCCANTC
AAGGGTNCAACCCGGCGTAGNGCCCTTGGACCTGNGCCTTTTATTTGGTTTGA

Sequence 3441

AGGTACGCGGGGACGTCNCTCGCTCCTTGACGGCTGACCGACACTGGGTCTGAGGTGTAA
GCGCTTTCCAGGCCCTTCCCTGGGGCTTGGAGGGGAATGGCGCAAAGGNACTTTTCTTA
CAAGCANGAGTCCACTTGCACTTACCANNANAAGTTATGTNCGCCTTNATNNGGTNCTA
AGAAAGGTTTGNGACTTTCCTTGAAAAATCNCCTTNGTACAAGNTGNTACATCCAATTCTT
TTCATCCTTGAAAANGAAGNNTGNGTAAAATAAATTTTTTCANAGGNCANAAAGNANGTTT
TCTNCTNCAAGNGGNAATAATTGNAACCCANNATTTNAAAAACACCANTTCCCTNNGG
NAGGGTAAANNTCCAAGNCCANGGCGGAATTTTCAAACCAAGTTTGNANCCTTNNC
CCCCCCNCNAAAACCCCCANGNCNTTGGGGGTNGGGGGTGGGTTTTTTTCT

Sequence 3442

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGTCTGAGTGATCCCATCCAG
CTGCTCCTGGACCTGGTATTGAGAGGTTTTTCCCTTGGAGGGCAAACAAAGTGGCAGTGG
GGACCAGGGTGTCCCCTGCTGAGAAATGGAGAGCTCTTTTCCCCTGTACCTGCCCCG

Sequence 3443

GGANCTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGTTCCACTCTGCTACAGATGC
GTCTGTGAAGAGCCTTGTGCCATCCAAGTAGTGACTGAATGATGTCCCATCTTCTTATCC
GAGCCAGAGCACACATCTTCCATGCTGTCCGCTGATTGCCTCCAAAATTCNAGAAAAGA
CCAAAATTAATTCCTTTTATTCCCCAAAAGNTAGGGCTTCAAAAAACCAGTTTTNNGGTT
TTCAAGGGCATTTCCCNNGGGATTCTTGCGACNCCCCTTCNTTTTAAAAATTCNCCAAGG
GGTTAAANTCTANCAAATGGAAGGGGNATTATAAAGGCCCCCCCCAAGGCCGGNAAATTG
GGGCAAAAACCTTNNGGGGCTTCTCCCCCTTTTGGAAAAGAAAGGCCTTGGCCTTGGTTA
AGNTTCNTTCCCTTGGCNTTTTGGGGGCCCCCTTNCTTTTTTGGCCTTTCAAAGNCTTTTTC
AACCCCAATTGGGGGGCCGNAACCGGGGGNCCNGNCTTTCNTTAAGGAAAACCTTANNT
TGGGGGAATTTCCCCCCCCCGGGGGGCTTGGCNAAGGGGGAAAATTTCCGGAATTANT
TNCAAAAGGCCCTTTAATTTCCGGAATTAACCCCGGTTCCGNACCCCTTCCCNATAAGNG
GGGGGGGGGGGGCCCC

Sequence 3444

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACATTTCC
AAAGTCAAGAGTCAAATAAAAAAATCCCATGGAATTTGGAGCCTATTTAGAACTCAAAT
AATGAGAATGCTGCAAATCAAACCTTGTGACATCCCCTAAAGCTGTTCTTAGAGGGAAA
TCTATCCAACACACTAAATGCTTACATTAGCAAAGAAGAAAGGCTAAAATGAACGAGCAT
CCAAGTTAACATGTTAGAAAAGGAGCAACAGAGAAGACTCAATAAAGTAAAAGGAAGGAA
ACAATAAAGATAAGATTAGAAATCAATGCAACAAGAAAACAAAGATAAATGCTGGAGAGG

Table 1

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ATCTTGGTTTTCTGAAAAGACAAATTAATGGGTCTCTTGGCAAGACT

Sequence 3445

CCGGGCAGGTACCAGGGCAGCAACCCAATCAGTGACATTTGGGCTATCCACGCGCTGCGG
ATCGTGGCTAAGTATCTGAAGAGGGCTCGTCAACAGCACTGACAAATGAAGAAGAAGAT
GAGTCTCAGGGCACCTTTCTTGGAAAGTGGGGCCCCCTCCGCCCCATTCCCANGGGNACNCA
GNCGCCGTTTGCTCTNNCCCNCGGNCGCCCTTTTTTACAATTCANCATTGGAGACAAGCCT
GGACAAGTCTGGCCTTGGTTCATGAAANATCCCCCGAATGGATTCTTTGAAANGCANANG
GGTTCTTCATTATTGCCANCTTTGGGGCCAANGGTGGCCTTTTTTGGCTTGGGCCATTC
NGGNNTTTTTTGGGGAAAAAATGGCCTTGNGGTAATTTTTCAAATCCTTGGTTGGCCCC
AATTGGGGGAAAATTGGGTTCCTTTAAACCCCCAAAATTTTTTCCAAGNGGGTTTTTAAG
NTTGAAAAAGTAATTGGTTATTTAAAAAAAGGCCAAAAAAGGGGAAATTTTANCCCAA
ATTGGGTGGGGGAATT

Sequence 3446

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGCTGGCGCGGTGCATCGTTGGGCA
CTGTAGTTTCCGCCGCGTTTATGGCCGCGTTAAGTCTGANTGCCGCTTTGAGTTGCTGAA
TGAAGTGAACCTTCATTTGTCAGCGTTCGGTACCTCGGCCGCTCTAGAAGTAGTG

Sequence 3447

GGAGCTCCCCGCGGTGGCGGCCGGCCGGGCAGGTACCTATGCTTTCAGAGTAAGAGCTTA
CAAGGGTTCAATCTGTAGTCCTTGCAGCAGAGAATTGATTCTTCATACTCCTCCAGCTCC
AGTTTTTCAGCTNCCTCTTTGATGAAAAATGTGGCTATAATAATGAACACCTCCTGCTGAA
CTTGAAGAGAGACCGTGTAGAGAGTANAGCTGGATTTAATCTTCTGCTTGTGTCAGAACG
CATCCAAGTGGGTATTACACNAGCTTAGACTACATCATTGGAGATACTGGCATTACAAA
AGGAAAACACTTCTGGGCCTTCCGTGTGAACCATATTCATACCT

Sequence 3448

CCGCGGTGGCGGCCCGCCGGGCAGGTACTGGGCAGGGCTTGGGAGATAAGACAGGACATC
TGAAGCTAAACATGGATCCCCTCTGAAAGCTACAATCAAAGTGTATCCACAAAATCTTA
TCTCAAGCCTTGACTAGAGAAGGACCCACTTCCAAGACCACAGAGTTGAATGAATTCAGT
CCTTGCAGCCCGTTGAACTGAGGGCCTCCCCAACATGCTCACCTGCTTCATCAAAGCCTG
CGAGAGAGAGAGTCCACTAGCAAGAGGACATTGCAGTCTTATCTAATGCAATCACTGAAG
TGACATCCTGTACCTTGGTCACCTTTTCTATTCTATTATTATAAATGAGTCCCAAGTC
CTGCCACACTCAAGTGGAG

Sequence 3449

GTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAAATAGCAAGTGCCGAGAAGCTGGCATCA
GAAAAACAGAGGGGAGATTTGTGTGGCTGCAGCCNAGGGAGACCAGGAAGATCTGCATGG
TGGGAAGGACCTGATGNATACAGAGCGTTGAGAAATAANGAAAAGGCTNGCTTGACTTTA
CCATTCTGAGGCCACACCATTTCTTGTGGAAATGNNGGAGNATAAATTAACCATCCACTT
AGNAAAACAGCAAAGGAATGTACCAAATAAATACTGGTCTTAGGGTACGCTGGACAATGG
TTTTTNTTTGCCAACCATTTTTTCTCANGCCCCCCCCCTTTNAAAAATAATTCCCACCACC
ACNACCAAGGGAAAGGCCATCAAAAAAAGGGGAAANGNCCACCAAGNAAGNAATTCCCC
CTTGGGGGAAGGAAAATTGNCNCCCGCGCCCCGGNCTTCCTTANGAAAANCTTAAGGT
GGGGAATTCCCCCCCCNCG

Sequence 3450

GGATCTTCGGCAAGACTCACGTCTCCAACAACCAAGCTCCCCAAAGTCTGACCTCAAGC
AATCCGCCTGCCTAGGCCTCGCAAAGTGCTGGGATTACAGGAGTGAGCCACCGTGCCCAG
CCAAGAAAGATTTTGAAGAGTGAATGAATACAAGGATTTCCACTAGACTGAGAATTAGT
TTGTCAACAGCATTTTCAAGTGTCTTGAGAAGTATTTACATTTGGCGTGGACAAAGCTGGCA
GATGACGTAGAAAGTAAAAAGTTGCCTCTTCAAAGTTTCCTTCTTGTAAAGAATAAAT
CATAAATGTTA

Sequence 3451

GCGTATACGACTCACTATAGGGGCGAAATTGGGAGCTCCACCCGCGGTGGCGGGCCGCCC
GGGCAGGTACGCGGGGATTTATGCAAATTTGAACTAGCTTCTTTGTTTACAATTCAGTTC
CTCCAACCAACCANGTNCTTCACTTTCAAGNAGGGCCACCACTTGCAACTCTCAGCCTT
AAACGTGGAATAAACAAAAGGAACCTGGCTTCAAGGGAGCCAGGGGGCTTGCCCCCAGGG
CCATGGGTGGAATTCACCCGGGAAGGTTCAAGTAAGTTTTCAAAGGACCCACAGACNCTT
GGGCCNCAACCANTGGGNTGGAAAAAACCCCCACCCCTTCTTACCTNAAAAAAAATNTG
GTGGTAATTAATCTTTTTGGTTGGTTNGGTNCTTTTCCCTTGGTTTTTAATTGGTNGAT
GGCCCCCAAAGGGGGGGAAGGTTANTTTTTTTTCAACCCAAAAAAGGTTTTTCCAAAAA

Table 1

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AACCAAGGCCNCCAACCAAAATTAAANTTCCAAGNAAGGAAATGGGGGANGGCCAAAAA
CCNCCAGGTTTGGGCCCCAATTCCCCAAGTNTCCTTTTTTAATTGGNCCAAAAAATNGAA
AAAAATTGGCCTTNGCCCAAAAAGGGGGGGGNA

Sequence 3452

AGGTACGCGGGGAGAAAAACAGAGGGGAGATTTGTGTGGCTTGCAGCCGAGGGAGACCAG
GAAGATCTGCATGGTGGGAAGGACCTGATGATACAGAGGTGAGAAATAAGAAAGGCTTGC
TGACTTTACCATTTCTGAGGCCACACCATNTGCTGAAAATNGGGAGATAATTTAACCATCA
CTTAGAAAACAGGCAAGGATGGACAATTATTAATGTTCTAAAGNTAAGTTGACATGGTT
TTTTTTGNCACCAATTTNNCAGGCCCCCTTTTTAAAATTATTTCCACAACCACNAACCAG
GGGAAAGCCCCACCAAAAAAAGGGAAAAGACCACNAAGNAGGATTCCCCCTTGGGGGGNA
GGAAAAAATGGCCCCCGGGGCTCCGGCTTCNTTAAGAAAAACCTTAAGTTTGGGGGAA
TTCCCCCCCCCGGGGGGCTTGGCCAAGGGGGGAAAATTTATCGGAATTNATNNCAAAGG
CCTTTTNNATTCNGNATTTACCCCGGGTTCNAACCNCCTTNNNGGAANNGGGGGGGGGG
GCCC

Sequence 3453

NCGCCCCGGGCAGGGTACGAGTGAGTGGGCTCATCGGTTGACCTCTGTTGTGAGATGGCAC
GTGGGTCTTACCCTGCAGAAGTCAGAGCCACCANAATTCCCAAGTNTANCCACCAGGTTG
TGGGNAAATTTCCANAAATGAGCNATCCTTGNTCAAACCANCATTCTTTNAAGNGGGCA
ACCAGAACCCCCCCTTTTATTCAATGGCCCCAAGGCCTTGGGGGAANGAAGNGCCCCAC
TTTCCTTGGTTATTTTTTTGNGCCAAGNGTNTGGGCCTTNGNTAGGCNCCCCAAGNTAGG
GNCNATTTCNAAAAGGGGCTTAATTGNGCCAANGNGGGGTTAATTAAGGCCAAGGNATG
TATTCCTTAAANGNGGCCNNAAGGTTGGGNAAAATGTAAATAAAGGCCCTTGNTCCG
GCCTTATATGGNAATTTTTTTTGAAAAAATTNNAANAATGGGAAAATTGGGGCCCCCTT
TTTTACCNAANAACNTTTTCNCAACCCCCCAACCAATTTTCNTTTTTTGTAANAANA
GGG

Sequence 3454

GTATACGACTCACTATANGGCCGAATTGGAGCTCCACCCGCGGTGGCGGCCGGCCCGGGC
AGGTACAGAGATGAAAGAGGGGTGGGATCCACACTTGAGAAGAGTGGAGAGTGACATTGT
TGCTTGGAACACTTGTCCTTGAAGCACTGAGCCATAAGCCTGGAGGCACAACCGCACCA
NAACACCTCANAGCAAAGGGATTGGGAAGCTTGAAAAAACATAACCCACCTCCTGTCC
TTGGAAGGCCACCTGGGGNAAAGCCCTTANAAGAAAAGGCCTTGTGGAAGCCCAAAAGGG
AAGGGGNAGNGGTCCTTTTCCTTTTGGCCATTGGGGGNATNGGGGGGATTGNAAAGTTA
AAGGGAGGAAGGGGGAACCTTGGNACCCCCCTTGGGNAAAGCCTTGGGAATTTCAACTTAT
TGGGGGGGGGAGGGTTGTATTTTGAAAAGTTCCCTTCCCANGACCAACCCCCCTTCAN
GAATTTTGAATGGATTTTTCCTTAAGTTANGAAAACCTCCNACAAGGAAAAATTAATAGG
AAGCCTTGG

Sequence 3455

TCACTATAGGGCGAAATTGGAGCTCCNACCGCGGTGGCGGGCCGAGGTACGCGGGGTTTG
AGTCACTGGTGCGCCATGATCCCCGCTTTGAAATCTGTGTGNGAAGTCATTCTGGGGCTT
GTCTCGCTTTCGGCCTAAAGGGGTTCACAAAAGGTGNAATTGANAGCCTCNTTNTGCC
AAAAGNAANTAANACCANGTTGCCCAAAAAAATTTCCACNTTTGGGTTTCCCAATG
GNTNCANCCCTTCAAGGGGAACAAAAGNTATTTNGGTNCCCTTGGCCGGCCTTTNTGCC
CCAATTCCTTGGATTTCCNTNCGGCCAACCCGGGGATTGGTGAAAAATTCCTTNGACTCC
CCAATTGGNTTGGCNAANGGCCGGGGGNCNCNTTGGGGNGGTAAANCCAACNCANTT
NCAANANAATGGGAAAGTCCCTTNGTGGCCCGGGGNCNCCGGGCATTTCTTTAAGNAA
AAANCNTTAAGGTATTGGGGGNAATTTNCCTCCCCCGGTGTGGNCCTTGGGCTNAAGG
GGNAAAAATTTTNCNNNAATTAATTCCAAAAGGGCCTTTTAAATNCCGGAAATTNAN
CCCCCGGTTNATGAAACCCCTTCNNAAAGNGGGGGGGGGGNGGCCNCCCCCGGGGGTTA
ANCCCCCAAGGNCCTTTTNTNTTGGGNTNTTCCCCCCTTTTTTNAAAGGTTGGGAAGGG
GGGGTTTTAAAATTNTGGGCC

Sequence 3456

CCGGGCAGGTACCTCCCCACCCAGGCCTCGCTCCTTCTCCACGGTTTGCAGGGCCACAT
GGCAGCTGTGGTGCGGGGTTCCAGCCAGCGGGCGTTGACAGTGGCCAGCGTAAGGCTCAG
GGAACAAGCAAGGTTAAAGCCTGGCTGGCCCTCCAGAAATGTTGAGCCTGAGCCCAAGN
CATTGCTGTGAAGCCCAAGNATGNCAGTAGGTNTGNATTGAAAGGGCACCAGCCCATNG
GAAGATGTNGGGAAAGTATGAAAGGGGGAAAGNAGTTNTGCTTCTTGCAACTTAGTTCCC
GAAAGGGTATTGTNCGNGGGGAAAGNGGCTTTCGGNAAAAAGCCAAGGGAAAGNCCTTG

Table 1

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GAGNACCGAAAGGGTCACCCCCACATTTTNGGCCATTGCCCCCAAGGGCAACCCTGGAC
AAGGAACCAGNTTAGAAATGGGACCCATTCTTTTAAATTCAGGGCCTCCTTAAGGGTTTC
CC

Sequence 3457

GGGGAAAAGAGCTCTCCATTTCTCAGCAGGGGACACCCTGGTCCCCACTGCCACTTTGTT
TGGCCTCCAAGGGAAAAACCTCTCAATACCAGGTCCAGGAGCAGCTGGATGGGATCACTC
AGAACC

Sequence 3458

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGGAAAGCAGCCTAAA
GCCCCGGACAGGCACACAGGCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGGC
TGCAACACCCAGACCTCTAGGAGAGACCAGGCCAGGATGCCTCGCCTGTTCTTGTTCCTA
CCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAA
GGACGATGTTATTAAATTAT

Sequence 3459

AGGTACGCGGGGTTTCTACCTAATAAATACGAAGGGCTGTAGAAGCTCAGGGCCCTTGCT
CACTAGAAGGAGCCCCCTGACCCCTTCTTCCAAAATACTTTTGTCTTTGTCTTCGTTT
CTGCATTCATCCCCCTTCGTTCACTTCCCATTAAACCAACCCAACAGNCGGACAANCTGGG
NCACCCTAAGGGACAAGGGGACNTTGNAGNTGAAAGGGTCTGTCTTNGAAGCCAAGTAGT
AANACCTGTACAACNTGGACTAAGGAANTAACCGAGGNAATTGTAGTAAACTCCTGGCGN
ACCGTAGGTTCTGNCTNTACCAAGCTTGATAATAAAAGGTTCTTGNCAAAANATTCAAGC
CTTGTNNACCCACTCATAACNGGCCAAATTTTGNAGTAGGCTTGNTACCAATCCCTNGCC
ATATTTTACNCTTTTATTNTNCAAAATTTAAATTGGCAAANANAACCAAAAANAAATTG
GGGGGGTAGGAATGGTTTTACCAGGG

Sequence 3460

AGGTACTGTATTCTCANCCACCATCAAAGCCCATTCGTAGGAAATTCAGACCANAAAACC
AAGCTACAGAAAACCAAGAGCCTTCCACTGCTGCAAGTGGGCCAGCTTCTGCGGCAACCA
TGAAACNCGCATCCAACAGTNCAAAAAGCAAGTCCTTCACAAAACANNAANAANGGCTC
ATTTTCACAACCTTGCTTANTTNCGNNAAAAAAATTATAAAGNNAGTGCNNANACNGCCAT
NNTGACTTGGGNNTNCTTGGCNTGTAAATCAAGATTGGAGTCCTTCCNCAANTCTATNAC
NAAGGNCTTTCTAAAGGTGGATGGGGTTTACNATTCCAAAGTAAAACCGNAAATTTTG
NCNAATTTTGGGGNANAAAAATCCCNAAAATTTTNGGNGAAAAACCCAAAATCCTTTT
NCCGTTTNNCCNGAGTTTCCAACCNTTGNTTGNTNTTGNTTTGAAACCACCCCCCNCCCN
CNAATTGGGGGTTTTCCAAANGATTGGNAACCAAGTTTNGGNGGGGTTTGGAACCCCT
TTTGGNTACCTTNGCCCCAAAAGGGAATTTCTTTTACCNTTTTTTTTTTGGGAAATTN
GGTTTTT

Sequence 3461

CGCGGTGGCGGCCGAGGTACAGATCTGGGAACATAAATATTAATAATGAGTGTGGCTGGAT
ATATGGAGAATGTTGGGCCCAGAAGGAACCGNAGAGATCAGATATTACAACAGCTTTGTT
TTTGAGGGTTAGAAAATATGAAAATTGATTTTGGTTTATTGAAACGCCACCAGTTTAAAG
GTCAAGCCANNGNGCCAGNAATCCTGNACGCCTTCTTGCGCCCCGTGGGTTTATTCTTC
CTTCACCCCAAGCCTTTTGGGCNTGCNCTCCATTGGTTTCANTCANCAAGTTATTTTCNCAT
NTTTTGTCTGTTGCCATAGTTCNTTTGGTGGAAAGGCCCATTC

Sequence 3462

AGGTACATTAGAATAACCTTTTCAAAAATATGCAATTTCTGTCCTTGAAGCCTAGGGAGT
GGGATGCAGCCACATTAAGACTCATGATTAAGCACCTTATTGTGTTAATCATGATATAAA
GAGCCTTGTATAACACAAAAGCCGAGATCGCGCCACTGCACTTTAGCCTGGGTGACAGAG
TGGGATTCTGTCCGCTCCCGCCAAAAAAAAGGAGAAGGTCACCTTGCAAGAGGTGGAG
AGAGAGCTAGTGGCTTGGATCTTTGGGGTGCACATGGGAATTGTGGGCCCACAGTGTCTG
GTGAAAGAAGAGGAGGCAGGAGGCCTTTTTCTTCTCATATGGGGGTTGAGTGNTGGGGGG
TGCTACTG

Sequence 3463

ATCCTATAGGGCGAATTGGAACCTCNCCGCGGGGGCGGCCGGGGCAGAAGTTGAGACCA
CCCANCAAGAGGAGCTAGGCCAGTCCATCTGCATTTGTACCCCAAGAACTCTTACCATGAA
GACCCTCCTACTGTTGGCAGTTGATCATGATCTTTTGGGCCCTACTTGCAGGGCNCCATG
GGGAAATTTTNGGGTGGAAATTTTTCACACAAGNAATNGATTCAAAGTTTGAACGAACAN
NGAAAAGNGGAATGCCCGCCACCTNCAGGTTTATTGGGCTTTTCTTAATGGGCTTGCCAC
AACNTGTTGGGCCGGTTGGGNGTTGNGCCNGTAANGNAATCNCCCCCAAAGGGAATGCC

Table 1

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AAAACCGGGAATTCCGGCTTGNCCTTGTTGGTACAACCTTCAATTGNAACNTGGTTTNGC
CTAACCAAAANANCGGTTCCCTTGGGGAGNAAAAACCGGTTGNGGGAATTGTTTGGGGCC
AACCCCAAAAAATTTTTTCCTTGGGAAGNCCTTAACCNANAGGGTTTTTTAAGNCCAANN
CCNTTCCGGGGGGGNAAGGCCNAAGGAA

Sequence 3464

CTCTCGACTCACTATAGGGCGAATTTGGANCTCNCCCCGGGGTGGGCGGGCCGNGGCCGT
NGGCTCACGTGGCCCCCTAAGTTTCCGGGTCTTCCTCAGTCCTGGATGACATGTTGGCAGC
CCAGACGAAAAAGCCCCGCGTACGGATGCTACTTGTCCAATGATGGTAAAAANGGGTAGC
CTTTACTGGGTTTGTCTTCCCGATTTTCAGGTTTATGAAATTGNAGGGAGGGTCCTGCNG
GCTTAGGGAAGTTCAAATTAACAGTTGNATTTGGCCNTTAANNTGNGGGCCGAAAATAAT
TTAATGNCNTTTTGGTTGGTNTCTGGGNATTATTACTGGGNANGGGGATTGGGGGGGCAT
TTTATTTTGGCCTAANGGGAATNGGAAGGNGCATTTGGGGGNATTNNGGTTTAAATTAAGG
GGGGGCAANAGGGGAACCGGCCCTTTCCCTTAAGTTTTNTGGTTTTAAGAGGGNAAC
CGGGGNANTTCCGGGGAAGTAAAATTTTGGGTGGGTAATNGGNCNGGAAANTTAANGNGN
AAAAAAATTCNCCCNGNCCGNTTNACCCCTTNCNGGGGGCCCCGGCNTTNCTTANGTAAAA
CCTTTAANGNTNGGGGNAATT

Sequence 3465

TATAGGGCGAATTGGANCTTCNACCGCGGGGGCGGGCCGAGGTACACAGCAGGCTTTTCAG
GCAGGGCACATGGCTCAGGGCCCCATGATGTGATACCTTGAAGCACACCATTACAGACAA
GTGGACCCCCAGAATCCCCCCCCACAAGTGCTTTACCACCTGTCCAGAAGCCCAGCCACC
ACAACATGAACTTCTGTCAACCTTCTCAAGNAGNTAAGCCTCTTAGCCACCACATTGNT
CATTTGGGACCAGGGNAGAATGGGAAGGGCTCACAACAACCTTGAAGTACCTCACCTTCC
TTCTGGGTATCGGAATGCTTGCCCCCCCCAGCCCTGAGGGNCGTTAGACAAGGGTTGGGG
TCCCCCAAGTTGGCTTGGGCCTTCCCTGGGGGGTGGGGGCCAGGGGCCCCCAAGGNAAC
CCTTTCACCAAACAATCTTGTTGGATTCTTTTGGGCCAGGGCCTTCTGGACAAGGGGCGG
GGAAGNCAANTCATTGAAGGGG

Sequence 3466

CCGGGCAGGTACTCCTTTAAACTGCTTAATCATGTTCTGATGGTTTTCAATGGCTTCCTT
CAAGATCATTTACAGGCTGGTCCATCTTCCACCGCCACTCAGTGCCACGGGGTTGGTGTG
GTGCCGCCAACAGAAGACACATTTATTAAGCACACGCCAAGCTCGGGGTGGTTTCCATGC
AGCGATGGCTCTCAATTCCATAGAATGTGTGTTTGTAAACAACCTCCTCTCCCTCGGAGCA
TGGACTTTGTCCACCTGCAAAGCTTCACCCCCGAGTGGCTCCCAATCAACTGATAACCTT
GTTTAGTAAGGGCTTCTCGGAGAGCAGGAGTTATCATAGCTCTTCTTTCACCATCTTTCA
TTCCTCCCCATGTTT

Sequence 3467

CCGGGCAGGTACGCGGGATATCAGGTAGTAGAATGTGCCATGCGAGCACTTCACTTCTCT
TCCAGGCACAATAAAGACATTGCCCTGGTCAACCTGGCAAACGTTCTACACAGAGCACAC
TTCTCTGCTGATGCTTGCTGTGATGGTCCAATGCCAGCCTCTTGGGATGGACAGTTGAA
CTTCTTTTACCAGGCTAATTACACTTTGGGGGGGNAATATANTAATNGCAAATTGCNTTTG
GGGGGAATTATTAANCCACCTTCAGGTGGCTNCTGGTTTATTGNACCAACCGTCCTTTTG
TCAAGGCCCAAGNACNCTGGGGGTTTTGGAGNCAAGNCCTAATNAAAANNAGGGGAAAG
GCCATGGCCTGGTTCCCTTAATTGGTCAAGTCCAANAAAACCTNGGNAAGCCANGAAAAT
TTTGGGNAAGGGGCTTCAAGNCCATTAAGNATTCCTTTTTTCCCAAGNCCGAAAACCACC
CTGGGAAATTGAAGGGTTTAAAAAAA

Sequence 3468

NGCGGGTGGGCGGGCCCGAGGTNCNCGGGGGTCAGCCCGCCGCGCCGGGGCTGCTCCT
TCTTCTCCTCGGGCGCCCGCGGCGATGTTCAACACGCGCCGTGAGCCGGCTGAGCAGGA
AGNCGGCCCGCTCTAGAACTTAGTGGAATCCCCCGGGGCTTGCAAGGAAATTTCCGAA
TATCAAGNCTTTATTCCGATAACCCGTTCCGNACCCTNNGAAGGGGGGGGNGCTCCGGGG
TACCCCGAGCCTTTTTGGTTTCCCTTNNTAAGATGAAGGGGGTTTAAAATTTGCCGCCG
CNTTTGGGCCGNTNAATTCCAATTGGGGTNCAATTAGGCCTTGGTTTTNCCCTTGATGTT
GGAAAAAATANGGTTTAATTCGCCCTNCAACANATTTTCNCAACCACCANACCATTA
CCGGAAGCCCCGGGGNAAGNCCATTAANAGTNGTTTANAAAGNCCCTTGGGGGGGNTT
GCCCTTAAAATTGAAGGTTGAAGGCCNTTAAANCCTTCCAACAATTTTAAATTTTT
GGCCGNTTTT

Sequence 3469

ACCTCCCACCCGCGGGTGGGCGGGCCGAGGTACTCCTTAGGGCGCTTCAGGAAGCTCAGG

Table 1

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GGCCTCCTGGGATTCTCATCTTGGTTTTTCCGTCGGCATTCTGCTGCTTCCGAGTCAG
GGCTTTCCTTCGTTTGTTTTTCCGCCTGCTTTGGNTGGGACTTNCCCCGCTGCCTTTCA
GNCTTCCTTTCAAGCTTTTTTCTCTTTGGCNTTCTTCAATACCTTGTTTTTTCAANGC
CAAGGTTTCNTTTTNCTTGCTTTTCTGTCNTGNGTTAACCTTAATTTGGCCGGGCCCGG
CCTTCCTTAAGAAAACCTAAGNTTGGGGAATTCCCCCCCCCGGNGTCCTTGGCCAAGG
GNNANATTTTNCGGAATTAATTCCAAAGTCCCTTTTAATTTCCGGAATTAACCCCCGNT
TCCNGTAACCCCTTTCGGTAGGGGGGNGGGGGGGGGCCCCCGGGGTNAACCCCCCAA
AGGGCCNTTTTTTTTTTGGGTNTNCCCCCTTTTTTTAAAGGTTGGGAAGGGGGGGTTTT
TNAAA

Sequence 3470

AGCTCCACCCGCGGTGGCGGGCNCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAAA
CTGTGTGTGAGGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGACGCTCTTT
AAGAGTCTGCACTGGGAGGAACCTGCNCATTACCCAGCTTCCCTTCTTGCAAGAGGG
GAGNGGGGGNAAACAATACCATTTNTATTTTCAATTGCCAGGTCTNGTTGCAATGCCAGGG
CTTTTTTTTGGGCTTTNCCTAACCTTTGGCNAACCAAAAAATTAATTNTGGCAACCCAAAC
CTCCCTTTAAGTTGGCCCGGAATTTCCCGCCCCCACAAGTAGNAGGTTTCNCTNGGTAG
CCNCACCAAGTTCCTTTTTTTNTTTGGCNTTTTGGCCATTTTGGTNAGGGGAGGAAGGGG
GACCTTAAAGGTTGGCCTTAAGNAGGACCTTAATGGTTCCGGCCTTTTTCCTTGAGGCC
TTACCCCGGAAGNAGGCGGCCTTCCGGTGGAACCTT

Sequence 3471

ACGATCACTATAGGGCGAATTGGGAGCTCCACCCGCGGTGGCGGGCCGAATTCAAGACTT
CTCCAAAATCACCACCAGCAGGCTTGTTTCCCCCTACTTTAGACTTTAAGTTTTTCGACCT
TTTCTTCAAATGATTTAAAAGTTGGGGAGTTTTTTTACATCTTCCAGCTTTTTTTGGTGAT
TGACCTGAAGCCCAACCAGACCGAAAAAAGNCAGCCTGNAGGGCCCTTCTGGTCTCAGG
CCCTGGGGAATTAAGGGTTTTCAAGGATGGTTCTTTCNTTGTAAGCCAGGATGGTTTG
CNTGTCACCGTTCTTTNGCNCACCCCTTTTGGGCCAAATGGTTTTCTTGTTTTTTTAA
GGTTTTCCCTGGTTAGGNAAGNAAATTTTGNAAATTTCCCAAAGNTTTTTTCCCCGGCCT
TTTGGAATTCCCTTCCTTGGGCTTANGNAATTGGCCTTTTTCTTCCTTTTTTTTGGGCNTT
GGCNTTTAAACCAACCTTTTTTGAAGTAACCAAAGGAAAGGTTCCCTTGGGGGGAATTTT
NTNCTTTTTCCTTTTCCTTAACCCCTTTTTTGN

Sequence 3472

TCATATAGGGCGAATTGGAGCTTCCCCCGCGGTGGGCGGCCGCCGNCAGGTACTGACG
ACCAGGGCCAGCTTGTTCTAGAGCGGGAATTAGAGGCTAGAGCGGCTGAAATGGTTGTTT
GGTGATGACACTGGGGTCCCTCCATCTCTGGGGCCCACTCTCTTCTGTCTTTCCCCATGG
GGAAAGTGCCACNTGGNGATCCCTCTNGCCCCGTCTCCTNGAATAACCAAGCCTGGACT
TGACCATTTGACNTGTGTCTGGTGGAATAAATGGGGGAGCCTCCTTGGTTTGGTGGGGA
GGAAGCCATTAGTTAAAAATTTTTTCNAGGAAGNAACCTTTNGAAAAACCCAAAAAAGGG
GANTTTTAAAAAACCCCGGCTTGNTCTTAAANGAAAAAANGTAAAAAAACCTTGGG
TAAGGGCCTTGNGGGCCGGCCAANNTTGGGCCTTCAACCGCCNCTTTATTAAATTCNC
CCCAGNTAAGGGGGCCTTGNAAGNGGGCCNGGGGGCCCGGGGNAATTCCAACCCCTTTGG
GAAGGGGTTT

Sequence 3473

CCGCGGTGGCGGCCGAGGTACATGAAACGTCGGGGGCTATATCTTCCCCAGTGTGCTCC
CAAATTCTGTCCAATTGATGGAAGCAAGCTTGCAAGTCCATGTTCCACAAGCAACTTTC
AGCCCAGGATTCTGCAGATCTTCCAGCTCTACATCCCATGTCATATACTCCATATTAGA
GGCTGTTGGATACACCTGACTTCGTAATTTATTATGAAGGTCCAAAATACTCTGCATGTC
ATTGTCTGTGATGGCCCTTTTCCCTCGTTGTTTGGCTATCCACCACTCACCATCCTCATC
CATGTATTTTTTCCAAAAGTTTCTCCAATAAAGTGGCATTGGGAACCACCATGGCTGGAAT
TGCTCTAGCCATGAACAGCACTGT

Sequence 3474

CGCGGTGGCGGCACGTGTGGCGCAGGGAGGACCCCTTACAGCAACCACAGCGTCGGGAAT
CCGAAAGGGAAAAGAGGTGCGCAGGCGCCACACACGGCCTTTACCCCGCGTACCTCGGC
CGCTCTAGAACTAANTGGGATCCCCCNGGGCCTGCCAGGGAATTNCGATTATTCAAAGCT
TTATCNGATTANNTCGTTCGTACGCTCGAGTNGGGGGNGCCCCCTGGATACCCAGACATN
TNTTTGNTTTCNCTCTTTAGATTGTAGGGGGGTTTAAATTTNGGTCAGCCGACNTTGGG
GCCGNTAAAAATTCCANTTGGGGTTNCANTNAANACNTTTGTTNTNTNCCNTTGNTTGNT
NGNAANAAAATTTTTGGTTTNAATTNCCCNGNNTTTCNANCAAAATT

Table 1

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Sequence 3475

CCGGGCAGGTACGCGGGGAGGAAGACTGGACAAAGGGGGTCACACATTCCTTCCATACGG
TTGAGCCTCTACCTGCCTGGTGGTGGTCACAGTTCAGCTTCTTCATGATNGGTGGATCCC
AATGGGCAATTGAATCCCAGGTGGCTTACCANTACCTTCATCCCTTAAATTAGGGCCNTC
CCTGGGTTTTAGTAAAGGAGGGCTCAGGTTCTNGGATTTGGGCACTTTCCCCATTTGTTG
NCTTCCCCCTTCTTACCCTTTAATGTGGCTNGTTCGGCCTTAGGGTTAGACCTATAGNACCA
AATTCNATTTTTTTAACCATTTTTGATNGTCCGGGAACCTTGNAAGTCCACCANGNCCACC
TGGCCAATTGGNAGNCCCCCNAATTGGTTAATTAATTAATTTTTTTCCTTTTCTGGGCN
ANTTGGCCCTTTNTTNCAANNNGNCAATTTTNGNGNCTAATTCCCCTTCCAATTCCTTCC
NCAACCCCTTCCAATTCCCCNATTGGACCCCCCAAAAATAATTGNCCTTGGGGGCCCCA
ATTCCTTTTTTCCTTTGGGNNTNTTTCCAAAATTTTC

Sequence 3476

AGGTACGCGGGGGCAGCCTAAAGCCCCGGGACAGGCACACAGGCCAGGTGTGTAGGCCAC
AGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGA
TGCCTCGCCTGTTCTTGTTCACCTGCTAGAAATCTGTTTACTACTGAACCAATTTTCCA
GAGCAGTCGCGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3477

CCGCGGTGGCGGGCCGAGGTACGCGGGGGTTGGAGAAACTAAACAATTTGTTATAAAACA
TCCTTAAAAGCATCAGAAAGTTAATACAGCAATGAAGAATTACAGGACCAAATTAAGAAT
GCAACCAGGTTGCCAAGAACTGAGTGATGTGTCCACATCCCGGGAGAGAGAAGCCACCAG
AAGCTGGAAGAGCTAAATCAGACTGCTCCCTAGAGCTTCAGAAGGAGCCAGAACTGATGA
CTCCAAGATCTTAGCCCACTGAAACTGATCTGGACTTCTGAACTATGAGAGATTCCATTC
CTGTTGTTTGAAGCCTACCCACATTATTGAGAAGTTGTTACAGTAGCCCCGAGGACCACT
AACACAAAATGGGGGGCTCCGGGGAAA

Sequence 3478

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTCTTTTTTCACCAAATTGGGTGATG
AGGTGGTGGTGTCTTTCCTCTGAGATGTCTCTTTTTTCCCACAGGATTCTTTGCTGGACA
TCCCTAATTCCAAGTCAAGCTGGATGGACAGGCAAGCTCGTCAGCTGCTAGTAAACCGCC
GCGGCCCCGCGGGCTCCGCACGAACCGACCAGACCCCAACCCCCGCGTACCT

Sequence 3479

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTATTCTGGGCAACGGCATTTGCACTCATGACGTCTCAT
ATGCTCCAACTCAGGGACCCGGGGGAAGGTAATACCTACCTCAGTGGCAGGATCCGTAG
NNGGGCAGTTGTGCGAATGGCCTTGGTATTACTGCCGNGGCTTAATTCGGTCAGAGCAAA
ACATCCAAAAATNTAAATGTCAAAGCACAAAATGATGGAAAGCAAGAAAAGTTNTTTGNG
CACATTCCCANAAAGGACCTCACTGCCATNTTTCCTTTAAAGATGAAACCACATNTNAAAG
CCCCAAATTTCCATNTACCCAACCTAG

Sequence 3480

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCCCGGGCCTCCCAAAGTGCT
GGGATTATAGGAGTGAGCCACCACACCCGGACCCACAGTCATATATATTACTAAAGCCAA
CCGACAAAAAGAAATATTGTAACAGTNAGACAAGATTGACAAGAGCAAACATTTACGCA
ANTCACCGTTAACAGAAAACGGCAACAAGAAATAATTAATAATCCCAATCTTATTTTCA
AGTCAGTGAAATAAAAAATACTCCCAACTCACCTTGAATCACCAACGGCAAATACTTTA
GGTTTTCTTTCTTCCCAAAGTGTGTTTGGCCTCGCTGCTAGGGCTGTGCCCCGAGCTTACA
CGGACTCCAGGTGAATGAGTTTTTCTTGAGTCACTGCAAAGGCAGTTTTCACTAGGCTTC
ACTT

Sequence 3481

CCGCGGTGGCGGGCCGAGGTACACTGGAGGCTGGGGCCTGCAGATGGCATGGCTCTGCGGC
TCACCTTGCTGCAGTTGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGGTGATTAC
CAGGAGCTCTGCCACTGCATGTCCACTAGTGACGGGTTGCTCCACCACCCAGCTGGGT
AGCCGCTGCTCTCACATAAGGGGTCCAATTAATAATGGCAGGAATAAATTCCCCCGGACT
TTGACTTCTCAAGAGCTAAGAAGGTTTGTGAGTATTCTGGCATGATGTTTGGTGATCAA
ACAAGTGTGGCCAAAAATGATGAAGTATTTCCCCTCTTGCTGAAAGATGTGCTCCATA
CAAATAGTCCATC

Sequence 3482

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACCGAACGCTGACAA
ATGAAGTTCACTTCATTCAACAACCTCAAAGCGGCACTCAGACTTAACGCGGCCATAAACG

Table 1

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CGGCGGAAACTACAGTGCCCACGATGCACCGCGCCAGCCCCGGCCGCTCTAGAAACTA
Sequence 3483

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGGTTGA
GCCGGGTAGGGAAAGCAGCCTAAAGCCCCGGGACAGGCACACAGGCCAGGTGTGTAGGCC
ACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAG
GATGCCTCGCCTGTTCTTGTTCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTC
CAGAGCAGTCGCGGCCAAATGGAAGGACCGATGTTATTAAATTAT

Sequence 3484

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGNTGCTATACTTTTAAAAAGTTTAAAG
AAAATAATTAGTATCTTTGTCAGCAAGTTTCCAGTGCGGCAGGAAAACCTAACTAATACA
AATAAGGAAAGGGAGAAATCAGAACCTCCTGGCATTACTGACCAATTATTTTGAAAGT
TATTCTTTAAAAATNTGTAAACAGAGATCACAGAATGATCAGTAAGAAATCTTTTACC
TGAGGGAAAATAAACTGCCAAATCTTCAAGGCAAAAAAACATGACTATATTTTTTGAA
TCTTTCATTTAAATAACCCAGTCCATCCCTCATGGGCCACAAGTCTANAAAACCTCCCT
TACCCT

Sequence 3485

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATCTACCTAAAGGACTATTATGTGGAATAATA
CATACTAATGAAGTATTACATGATTTAAAGACTACAATAAAACCAAACATGCTTATAACA
TTAAGAAAAACAATAAAGATACATGATTGGAAACCAAGGTTGAAAAATAGGCATATGCCT
TGGAGGAAATGTGCTCAAATTACTAATGATTTAGTGTTGTCCCTACTTTCTCTCTCTTTT
TTCTTTCTTTTTTTTTTTATTATGGTTAGCTGTCACATACTTTTTTTTTTTTTGAGAT
GGGGTCTCGCTCTGTCACCAGGCTTGGAGTGGCAGTGGGCGCCGATCTCGGCTCACTGCA
ACCCTCCACATCCCAT

Sequence 3486

GGAGCTNCCCGCGGTGGCGGCCGAGGTACAAAGATTTCTGTGGTAAACCATCTAGTATA
AACACTCAAATAATCACTTCAATCCTTAGACTATCTAATTCAAGTGCCACTAAAGTATGC
CTAAACTCTCATAGGAACTGATGACTCTACCCTAAATGGTCCTGCATGTCTCCAGTTT
ATCTGATGGAGCTGAACATAATCTGAGTATATTATGAACACAAGCAAAAATTGTGCCATCC
TTCATCAACAAAGATACAGAAACCATAAATATGATGTCAGAATTTGTTGCTAATTTGCCA
CAGGAGCTGAAGTTAACCTGTCTGAGATGCAGCCAGCATTACCACAGCTACAACAACCA
TGGTACCTCGGCCGCTCTAGAACTAGGTGGGATCCC

Sequence 3487

ATACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCATAATTTAATAAC
ATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTC
TAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGG
TGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGT
CCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCCCCCGCGTACCT

Sequence 3488

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGCTCTTGTGAT
CTTGATTGACACGAGTGGCACCCCTTCTGCAGAAGTAAATTGTCTAGCTTAGAGAACTTCT
GCCTGAGTGCTGGTTTCACTTTGCTGCACCAAGCATTTATTCCTANAAACATTTTTTATAT
TCAGCAATTCTGGGGGCTCATCCGGGATCCCCATTCTCCTTCAAGAAGGGGTCTTCAGTC
ACCCTACCCAGGGGAGATGTGTCCCACTGCCCCATTGTGGTGGCCTCAGGGAGGGGGAGA
TCAAGACCCACCCCGTTGTTATGAATAAACTTGGAATCTCAGCAACACGGGGGAGGGAGA
GGCT

Sequence 3489

ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGG
GACAGCAAAGGCAAGAAACACTTTTCCGACCCCTTGGCCATGGAGCAGAGCCAAAATAAA
TACTGGCTGGGCGGTAAGGAACGCGGGGCTTGGTAGAGCAAAGTGCGGACCAAAGACTT
TGCGTCTGGTTGCTTTTACCTTGCTTAGTAGGGTCTTCGTTCTGGCGCCATCTTCATGAA
GCCTCACGAACCCGAAGAGACGGCTGTAGAGAGAGAGACACAGAGCTTGTTAATGGTCTG
AGAAAGCCAGTGACTTGCTCCTTCCCGAGTCCAAGAGCGACAGCGACAGATTGGTGAGTG
CCAAGCTGAGGATGACCCCGTCATCAACGTGGGGCNAA

Sequence 3490

TATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGG
TTGAGCCGGGTAGGGAAAGCAGCCTAAAGCCCCGGGACAGGCACACAGGCCAGGTGTGTA
GGCCACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGC

Table 1

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CCAGGATGCCTCGCCTGTTCTTGTTCACCTGCTAGAATTCTGTTTACTACTGAACCAAT
TTTCCAGAGCAGTCGCGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3491

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGG
CCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTCCCCGCGTACCT

Sequence 3492

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGGTAACGCTT
GTTGTTGTCCAAGTGAAGCTCCCTCAGATGAGGCGTGTTGGCCAGAGAGCCATTGTCAAC
AGCAGAGATGCTGTTGAACTCAATCCCAACTTAGCCAAATTATTCAAGTCCTTTCAAGC
TACTGCATCAACCTCTNCTTGATTTTGTGTCCTCATCAAAGAATGTAATTTTCCGTAAAGG
GAAAGGGAGGGAAAGAACCCTTTGGAGGGAAATGGCTTGGGTGGAATATTTGGGGTAATTC
AANGCAAAATGGCCGGGAATTGGTTAGGGAAGAAGGCCTTTNTTTTCAATTTTCCCCCTT
GGGAAAAGGCCCCCCCCANTTTTTTCCAAANTTTCCCTTGAAGCCNTTNTTTTCAAAN
CCGGGGAATTTNG

Sequence 3493

GGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTCCATTTGGCCGCGA
CTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGC
GAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGGTGTTTGCAAGCCCTTTCAGGAC
TGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTAGGCTGCCC
CCGCGTNCCT

Sequence 3494

CGAGGTACGCGGGGACTGACTGGTTGAGCCGGGTAGGGAAAGCAGCCTAAAGCCCCGGGAC
AGGCACACAGGCCAGGTGTGTAGGCCACAGCAGCCGAGTCCTGAAAGGCTGCAACACC
CAGACCTCCAGGAGAGACCAGCCCAGGATGCCTCGCCTGTTCTTGTTCACCTGCTAGAA
TTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGACGATGTT
ATTAAATTAT

Sequence 3495

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCGGGGGTCTGTGAAAGC
TTTAATAAAACCACGTTTGTTTTCTGGCGAAAGAGGCGCAAGATGAATGCTTCTTGACA
AGACTCGATTATTCTGTGGGCTCTATACACCAAGATGCCTGAGGGGGAGAAACATAATTT
AAACTACAGAACAGGTGGCGGGTGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAG
GCAGATGGATCACTTGAAGTCAGGAGTTCAAGACCAGCCTGGCCAACATAGTGAAACCCT
GCCTCTACCAAAAAATACAAGAATTAGCCCAGCATGGTGGCGTGACCTGTAGTCCCAGC
TACTCAGGAGGATGAGGTGTGAGGGTAAATCTGACCCCCGTTCCCTTCCATCTTGGCTTG
GAAAGTGGAAGTCCCGGGTGGACATTTTGGAGCCCCTGATGTATGCCAGGCACTGCTGTA
AGCACTGAGTATTCAAAGATGAACAAAATGATGTGGCCCCAGTCTCCTAAAATTTACTAT
CAAGAGAAGAAGACAACAGTGAAGCATCTGTTGAAATGGAGGTGCCCAGAATGGAAGCAA
CCATGGCACGGAGGGCAAGCTTCCCAGAAAACCTGNCCANACTCACAGAGGTCTTTTGTGG
GAGGAANGGAATAAACCTATGTAAAGCTNCCGAGATTTTCCATTGNTTATTACTGNAAC
ATTANTTGGTCTGNTCCAGCCAACGGNAGCATTAAGATGTGTTTGCNTGNGCCAACCTTNA
CATCTNGATTTGAAAAAANTCNGTCTGAAAANGAAACCAATTCCCGNTTTTCAATTTTAA
TT

Sequence 3496

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTNTTT
TTTTTTTTTTTTTTTTTTTTTTTGAATCACAGACCTTTAATTTTAAAGCTTAGGAAGT
AAAGAGAGAGAGGACACTGCAAATNACCCAAGAAGCCAGGANAAAGAAGCAGATGTGCTC
AAGTCACGACTTCTTNTTCACCTTTGGATCCAGNGGCTTGGAAAGCCCTGGTTATTTTCT
GGAANATCCNTTNTNCATCCATCACAACTTTCTNATNTTTAAGGNAGGAGCCAGNAA
ACCTTTCCCTGCCACCGCTGGGGAGGCACATAGCTCGCCAGCGTCCCTGGAGTCCCCTCAG
GAATCCCCGCGTACCTCGGNCGCTCTANAAC TAGNGGGATCCCCCGGGCTGCAGGGAATT
CG

Sequence 3497

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTATAGTTTAG
AGCTGGACATTGGAAAAAAAAGCCAGAACAACATGTAATAGATAATATGATTGGCTGC
ACACTTCCAGACTGATGAATGATGAATGTGATGGACTATTGTATGGAGCACATCTTCAGC

Table 1

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AAGAGGGGGAAATACTCATCATTTTTAGCCCAGCANTTGTTTTGATCACCAAACATCATG
CCAGAATACTCAGCAAACCTTCTTAGCTCTTGAGAAGTCAAAGTCCGGGGGAATTTATTC
CTGGCAATTTTAATTGGACCCCTTATGTTGAGAGCAGCGGCTACCCAGCTGGGGTGGTGG
AGCGAACCCGT

Sequence 3498

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGCANC
CTAAAGCCCCGGGACAGGCACACGGGCCAGGTGTGTAGGCCACANCAGCTCGCAGTCCTG
AAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGATGCCTCGCCTGTTCTT
GTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTCCAGAGCAGTCGCGGCAAA
ATGGAAGGACGATGTTATTAAATTAT

Sequence 3499

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGG
CCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCC
CGCGTACCTCGGCCGCTCTAGAACTAGT

Sequence 3500

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCC
TTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGG
TGGAACAAGAACGGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCA
GCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGC
TTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCTCCCCGCGTACCT

Sequence 3501

CCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTG
GAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATC
CTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGT
GGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTCCCCGCG
TACCT

Sequence 3502

CATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTC
CTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAG
GTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGC
AGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGG
CTTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCCCCGCGTACCT

Sequence 3503

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCT
TCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGT
GGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAG
CCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCT
TTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCT

Sequence 3504

CCGCGGTGGCGGCCGATAANTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGA
AAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCT
GGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGAGCCTNTAGACTGCGGCTGCTGTGGCCT
ACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTCCCCGCGTACCT

C

Sequence 3505

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCAGCCGCTGACGTCGGAAGAACCTGCTGGG
CCCCTGTGCTCAGGCCCTAAACAACTTGGTGTCCCGAAGGGGAGGCGCGACCAAAGAA
ATCAAAGGTCTTTAGGGCGGAGATCACAGAATCATTGGAGATATTAATGCAAACGGGAG
GCCTGTCCAATAATCCTGCTAATGCTAATNGGGTTACTGGAAAGATGAANAAGAGAGGAA
AGATCCCAACGATCCCGTCAACACGAAAATCCCAGGAATNAGAGAAATGCTGAGCCGATT
ATNAGGATTAGCAAATGTTGTTTTGCATGAATTATCAGGAGATGATTGACACTGATCAGA
ATATGAGGGCTCCCCTANACCCTGAATTACACCAAGGAATCTTGACATGGGAATTTAATA
ATACTACACAAGGAAAGATGT

Sequence 3506

AGGTACGCGGGGAGGGAAAGCAGCCTAAAGCCCCGGGACAGGCACACAGGCCAGGTGTGT

Table 1

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AGGCCACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGG
CCCAGGATGCCTCGCCTGTTCTTGTTCACCTGCTAGAAATTCTGTTTACTACTGAACCA
ATTTTNCAGAGCAGTCGCNGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3507

CCGCGGTGGCGGCCGAGGTACACTCTAAAGAAAGCCATGAGGATGATAATCCACTTTGAT
ACTTCCAATCTGCTGGCCTTGCTGAACTCTTTGGATCATGGATATCATAAGTTCGACAAA
ATATTTTTTTTGTAGAAGCACAAATGTGAAGTGTCACTCGTTCTGAGACTTCCTCCTNTG
TGAAATTCCACAATCTCTTTCTATTTATAGACTTTTCCACAGCAAACATTAGTCTACGCA
GGGCATTTTGAAAATCATTTGCCAGTTCTAAAGTAGTAATAATAATACTCCAAGAACTA
AAAGTCCCCCTGGTAGCATTCTGGATACCTGGCAGGCATGTTCTGTGGCCCATTC

Sequence 3508

CCGCGGTGGCGGCCGCCCCGGGCAGGTACCTTTCATTGGATTGTCCATGGTGCATCGCTTT
AGCAAGCGGCGTGACTCTCCGCTGCCCGTCATCTTGGCCAATATCTATCTGCTGGTTCCT
CCTGTGCTCAACCCAATTGCCTATGGAGTGAAGACAAAGGAGATTCGACAGCGCATCCTT
CGACTTTTCCATGTGGGCCACACACGCTTCAGAGCCCTAGGTGTCAGTGATCAAACCTTCT
TTTCCATTCAAGATCCTCTGATTCAGATTTTAATGTAAACATTTTGAAGACAGTATTCA
NAAAAAAATTTCTTAATAAAAATACAACCTCAGATCCTTCAAATATGAAACTGGTTGGG
GAATCTCCATTTTTCATATTATTTTCTTCTTTGNTTNCTTGCTACATATAATTATTAA

Sequence 3509

ATCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGTTAAGCT
CCATTTACCACTCACTTGACAGTGTCTTTAAATCTGAACTTGCTCTTGCTCATGCGGAG
CTTGCGTAAGAGAAACCAGATCAGAATGCAAGCTGTAGGTGGGTGGGTGAGTGTGTCCCC
TCCCACACTGCTCTCTGGTGGGTTTGGGCAGTCCCTGGCTCTAGTCTCTGCTGCAGATTC
TCAGGACCAAAATGTGGGTGATTTGTCTGGGTCCAGGCAGGAGACAGAAATCACACAAGC
CTCTTTTATTAAGAGATAATATAAAGAATGATTAACCAGGTGACAGTAAAGGGCAGGAAG

Sequence 3510

CCGGGCAGGTACGCGGGGTCTGTGCCTGGAGGGGACTCGCCGCCATCTCAGGTCTCTTGG
CTTTGCCAGGGCCCACCGGAGAAACTGACGACCCGTTTCTGTAATCCTTATGGGAGGAC
CAACCTTGTGCCTCCGGGAGATCCACTCTCCCACCCGGGAAACCGCCACCGGGGGAAGGC
CAAGGCCCTCCAAAAAAAGGCGNCTGGCCTTCTTCCGCTTCCGCGGTTTGGGGGAATT
TATTNCNCGGGGAAAGGGAAACCTTCCCCCNAACNGGGGAAGGGGTTAAGGTTAACNC
CNGGGGGAAGGAATTGGAAAATTGGNAAATTGTTGGGGCCNTTAATTGGTTTCCCCAAAN
TTAAACCCAATTTTTTNTAATTTTTTAANCCAAAAAACCCTAANGNAAGGGGGG
TTNNGGGTTCCCTGGGTAAATTTTANCCCAAANAAAAAACCCTAAGG

Sequence 3511

AGGTACCTCAAGATCATGGCAGGCAGCAAGTGAAGCCCCAGCTGGACTCATGGATGTGCA
CCCTTTGCTCCCTGCTCTTATTGCCTANGNNCTCATGNATNTGNGCAGNTATGGTACTNG
ATCCNNNTTNTNTTAGTGGCTGGGGGCTTTNTTGCCTATAAATCTATACCATGAAAAG
CCTGCCTTTATTTTNTNCCAAGCTGAGTGCCATTTGCTGTTAAAAGTACCTTGCCCGGGC
GGCCGNTCTAGAACTAGTN

Sequence 3512

ATACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCGAACGCTGACAAAT
GAAGTTCACCTCATTTCAACAACCTCAAAGCGGCACTCAGACTTAACGCGGCCATAAACGCG
GCGGAAACTACGGTGCCACGATGCACCGCGCCAGCCC

Sequence 3513

CCGCGGTGGCGGCCGAGGTACGGGGGTATTTCCAATGACGTGTGTGCGCAAGTTCACCC
TCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAGCACCTG
CTCGGGTGATTCTGGGGGCCCACTTGTCTGTAATGGTGTGCTTCAAGGTATCACGTCATG
GGGCAGTGAACCATGTGCCCTGCCGAAAGGCCTTCCCTGTACCATTAACCAATAGCGT
AACTATTTTATGTCCACATTTCACTTCTGTATTTACAAACATATCAGTAAAGAGTTAACA
ATGAGATGCGATCAAACATCCATATTATCTGTTTTGTAGACAGCAATGTANATGATTTTG
TAATCACCTTTCATCGGAGTNACCTTATATAAAAAATAAG

Sequence 3514

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTT
CCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTG
GAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGC
CTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTT

Table 1

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TAGGCTGCCCCGCGTACCT

Sequence 3515

CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGTCAGCTGT
CCGGGCTGCTTTCGCCTCCGCCTGTGGATGCTGCGCCTCTCCGAACGCAACATGAAGGTG
CTCCTTGCCGCGCCCTCATCGCGGGGTCCGTCTTCTTCTGCTGCTGCGGGACCTTCT
GCGGCCCCGCTCTAAGAACTANNTGGGATCCCCCNNGCCTTGCNAGGAAATTTCAATAA
TCAAAGCCTTATCNAANACCGCCCGACCTCNGAGGGGGGGGGCCCCGGTACCCAAGCTTT
TGTTCCCTTTAGT

Sequence 3516

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAAAGGC
CGTGTGTGGCGCCTGCGCACCTCTTTTCCCTTTCGGATTCCCAGACGTGTGGTTGCTGTA
AGGGGTCCTCCCTGCGCCACA

Sequence 3517

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTC
CTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAG
GTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGC
AGCCTTTCAGGACTGCGGNTGCTTTGGGGCCTACACACCTTGGGCCTGTGTCCCCGCGTA
CCT

Sequence 3518

CCGCGGTGGCGGCCGCCACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGC
TTCTCCTCGGCCAATTTCGCGGAAGAAGTGGCTCACGCCCTCCAGAGCCACATCATCGCGG
TCGAAATAGAAGCCCAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTNCCTCGGGNCCCTT
CTNAAAATAANTGGGATCCCCCGGGGCTTGNAGGGAATTTCAATATTCAAAGCCTTATT
TGATACCCGTCGACCCTCGAAGGGGGGGGCTCCCGGTACCCAAGCTTTTTGTTCCCTTT
ANNTGAAGGGTTAATTGCCGC

Sequence 3519

CTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAGCTTCAGCA
TCACTGGGAAGCTTATTAGAAATGCAGAACCTCAGGCCCTGCTTACTGAACAAAATCCA
CAGAGTCTCCAGGCTGCTCATGACTTACTTCCTCATGTCTGCCTCTCCAGCTTTCTGGAG
GAGGGACTGGGCTTGGGCTGGGGCCNAATTNTTCNTGTTTTTCAGCCCCCTTGGTGCCAGGG
GTTTGTAAGCAGNACACCNGAGGCTTGCTCTTGAAACCAACTGATTTAGCTTGAGCTATC
AATATTGTGTGGCTCAGCTGGGGGTCCCCCTTCCCTCCTGTCTGCAATGGTTGTTTGT
TTTGAGGCAGAGTCTCACTCTGTACCCAGGCTGGAGTGCAGTGGGCACAATCAGCTCAC
TGCAACTTNTGCCTTTCCGGATTCAAAGCAA

Sequence 3520

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTTATCATTCATCTGCGTGCTTCTCCGCATT
ACTCTGGTCTTTGGCAATCTGCAGCAACACAATGCAGTGTTAATTGATTCTACCATGCT
ATTTGTTGTCTCTTTGAGAGTTTCAATTTTCTTTCCCTGTTTCATCTTCTTTGCAGTTTTG
NAGCCTNGCNTCAAAAAANGGCTTTNAATTTGTTCCAATCAAGAATTTGTAAGGTAAGCA
TCAGCCTNCTGTAAGTTTTCTTTATCAAATCTTGACACTAGNGAACAAATCCTGAATC
CAAACCTTGAAGCTGGAGAGTATGTGCAAGAATTGTTTCTTCTAAAGGCATGGATCCACT
TCTCTNGCTCATCAGCATCACGGGCCTGGAAAT

Sequence 3521

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACACAGTCATC
ACCCCTACCCGTGCACAGATGGCCACTTCTGCCTCCATCCACTCAATGCCAACAGGCACG
ATTCTCCACTGACAACGCTCACGGCCACAGGGTCCACACACAGCCTACCAATGACG
GGGACCACCATTCGGACCCACCCANCCACAGCTTCATTNAGGCATAGCCCNNGNNGAAA
AAAAAAAAAAAAAAAAAAGGTCCAGAGATTTAAATGAAATNTTCGAAAGAATAAATTTG
CTTTTCAGTCCACTGNATTTTCAAATTTGATTATNACCAAGCTTGGATGAAAGCTGTGAA
CCACAAACCATTTGTTTATTTAATAGAAAAAGAATGTGTANACCCGCGTACCTTCANAA
ACTTNTTCAAGATACCCGNGTTGAACTTCCATTTGCATAT

Sequence 3522

AACANGAACGCTGTCACCTTCTCAGAGTNAGNACTAGCACACNTGTNAANGGACAGGAGA
NGGAGGCTCACANNCGGAATTNTCCTGGGGCGCAAGAATNNTTTGGTTTCGANGCCGCCC
CAGCCTGAGGCGTAGCAGGTGGGCCCCAGTGCTGGCTCCNNGGGGGGCGAGGCCCAAGACC
TTCACAAACATCNGGGAATTTGGGCANGCTCTGACAGGCGAAAGCANCANGANGGCANGGC
NGGAAGGCCTAAANCGGGGNCAAAAGGCTNNGAAGCCTNAAAAAAGNCCCAAAAANGGG

Table 1

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AAAAAACCGGGGGGNGGANAAAAANANCNGGGNCNNAAAAAANGACNCCCCGGGGGCC
CNGGGGNNNNNANNGGGGAAAAAAAAGNGGGGGGGGNCNCCCCCCCCNAANANNCAA
NACCNGGGGNANAATTNNNTTNNNAAAAAANAAAANGGGGNNCNNNNAAAAAAACACCN
CCGGGGGGGGGGGGGNAAAAAAACCCCCCCCCN

Sequence 3523

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGTTGTA
AAATTACCANGGAACCGCCATGCCTCAAGATCGCCCTGTTTTCTGGCTTCATCAATGACT
GCATGCAGTGCACCACCCTGTCCACTACGTGATGCTGTAGGATTAAGTCTCACAGTGGGC
GGCTGAGGATACAGCGCCGCGTCTGTGTTGCCGGTGAATTAGACGCCATCGCTGTGGGT
TGCTGGTATGGTGCCGTGCTATTTGGCACAGGACACACCGCTTGAGGTCTGTATTGAACC
TCTGAAGGAGGCCGATACTGAAGCTCGGTTGGCAGCCGGTATTGATAAACTACCAGCGGT
TGGGTCTTATTTTCTACCGCTGATATTGTGGATACTGTATCTGAGTTGGCATTGCCGGG
ATAGAGACTCTGTCCCTTTCTACTTGATTT

Sequence 3524

AACACTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATC
GTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAG
CAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGT
TGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCC
GGGCTTTAGGCTGCTTTCCCTCCCCGCGTACCT

Sequence 3525

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACTGACT
GGTTGAGCCGGGTAGGGAAAGCAGCCTAAAGCCCGGGACAGGCACACAGGCCCAGGTGTG
TAGGCCACAGCAGCCGAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAG
GCCCAGGATGCCTCGCCTGTTCTTTGTTCCACCTGCTAGAATTCTTGTTTACTACTGAAC
CAATTTTNCAGAGCAGTCGCGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3526

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCCACT
CCCAGACACCATTGACCAGATGCTAAGAGTCAAAGGAATGAAACACAGAAAACTCCAAG
TCACACAAGGATGTTAAAAGATGGTCAAGAAAGGCCACAATCCTTAAAAGCACAGCCTT
CTAACATCGCTTTTCACTTAGGGAAGAACTGAAANAGGAAAGACTGGTCTTGCCAGAAAT
GGCCAGCTTGTGCAGACTCCGAGTCCTTCACTGACAAAGGCCTTTGCTGTTTGTCTCTT
GACCTGTGTCTGACTTGCTCCTGGATGGGCACCCACACTCAGAGGCTACATATGGCCCTA
GAGCACCACCTTCCNTAGGGACACTGGGGCTACCTACAGACAACTTCATCTAAGTCCTA
ACTATTACCAATGATGGACTCAGCACCTTCAAAGCAG

Sequence 3527

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGGA
AAAGAGCTCTCCATTTCTCAGCAGGGGACACCCTGGTCCCCACTGCCACTTTGTTTGCCC
TCCAAGGGAAAAACCTCTCAATACCAGGTCCAGGAGCAGCTGGATGGGATCACTCAGAAC
C

Sequence 3528

CCGCGGTGGCGGCCGAGGTACCAGGAGGGTATTGATGTTTGAGGTCCAAACTGAAAACCC
ATCACCTCCTTCCCCTGCTATAGCAGCGTTAGCCCTGGGGTTCATTATCTAGCCAGTCC
ACACCTTCTAAAGTGGGGCTCTGAAAATGTCTTACTTCCCTCACAGACAAAGCAATTCTCA
AGCCTCCTGAGATCACCCACCAACCAGAGCAACTGCTGTCACTTGGAGGTGCAGCTGAAT
TCTTCTAATTGTGACACAACTCTTGAACTGTAAATGCTGAAAGATTAAATGAGGTTAT
AACACTCAGAAGGTTTTACAAGTAAAAGTAAGTCAAATCAATAGGTCTTTATTTTCATATC
TGTAATGGGTTTAAGCTCTGCGGGAAGTGTTAGCAGCTATATGAATTAGGAAGAATTAG
AAGACAATCCCTAAACACATGAAATGTCCAAGTAAGAAGATAACATATTTATCCAAATAT
TTAAAGTGAAATGCTCCAGATATGGGGAAGCTTACAGTTTTTCAAGCAAAGCTTTTGTAGA
AAAAATTATGGAA

Sequence 3529

CCGCGGTGGCGGCCGAGGTACTTGCCCCCAGGCCCAGATAATTTATTTAAAACTTTTTT
TTGTAGAGACAGGGTCTCACTATGTTGCCCAGGCTGGTCTCAAACCTCCTGGCCTCAAACA
ATCCTCTACCTCAACCCCCCTAAGTGTGGCATTCAAGTCAAGCTGCCATGCCTGGCTA
CAAATCTTAATGTTTTCCCATGGCTTCTTTTTCTGGCGTTCTTTTCTCAGGTAATGGAA
GTGGGCAGAGAATGATCCTTTCCCTAGGCTCCAAGTGTGTAAGAATTAAAGAAAGAGGAA
AGAAACACAATGGCTTGATGGTCGAGGACAGGTTTATTTTAAAGAAAACAAACCCAAGAG

Table 1

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TGGCTTCTGGCTGAGTTAGATCAGAGGCATGCTCTCTTACAGACTAAGAGTTTTTTAAGG
GATTACAGGGTGGGAGAGTTTACCAGAGCTTGGACTGCTTCTGNGTCTCTTTAAGTGTGCT
TATCTGGGANGGGAGTTTGTGTGTCTGTTTCCCATACATCNTTCTGCAGCTGCAAGGCA
TACCCCAAGGTC

Sequence 3530

CCGCGGTGGCGGCCCGCCGGGCAGGTACAGGGGAAAAGAGCTCTCCATTTCTCAGCAGG
GGACACCCTGGTCCCCACTGCCACTTTGTTTGCCCTCCAAGGGAAAACCTCTCAATACC
AGGTCCAGGAGCAGCTGGATGGGATCACTCAGAACCCGGCGTTAGAACTAGTG

Sequence 3531

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAACCAAACAAACAACTG
TGTATAGACTGCTGTTTTCTTTTTTATTTGAAATGAGGCATTTTGGNGTTCTTTCCCCTA
CCATACGGCCTGTCTGCCCTTCCCTCCCCACATTGGCTCCAGCAGAGTAGCCGAAGGTCC
TGCCGCCGCCGCCACCACCACCCTGCAGCAACAACAGCAGCAGCAGCAGCAGCGCTGC
ATAGCTCCACTCTGACCTGNGAAGGAATGGGGATGAGGCCAGGAGCTAGTGTCTACCACG
GCCACACAGGGAGCAGTGTGGGCCCTTAGCCCCCAAGGGGCCTGCTATGCATGTGGCTT
TTTTNTTTTTTTAAACACAGTNAACTAGATTAGTCNGTNAGGGTTTTTA

Sequence 3532

CCGGGCAGGTACCCAATCCTGTCCTTGCCGGTCCCTCCTNGCCGGGTGGGAATCTTCGTG
GATTATGAGGCCCATGACATTTCTTTCTACAATGTGACTGACTATGGCTCCCACATCTTC
ACTTTCCCCCGCTATCCCTTCCCTGGGCCGCTCCTGCCCTATTTTTAGTCCTTTGCTAC
AGCATTTGGAACCAACAANCACTGCTCCTCTGGCCATNTTGCTCCNNTGGATGNGGTGAG
GGACTAAAGGANAAAGCTTACCANCCTATAACNCACCANTAAGGGCTTTGGNAATTTGGG
GTCCTGGGTCCCNCCATGGGGGCCCTTTGGNAGGGACCCCGAGTCNCACNTGACCAAGGT
ATTCCCCCTTGNAAAACNTTGGAGGCNTGCCGCCCCCAAGTTATTCCCNAAAGGGAATTC
CCTTCTNGTACTGGAATCCCCTTTTTGGGTTCNTTTTTGGCTTTACACAANGGGCCTTG
GAAAAGTTTCNTTGNTNCAATTGNAAAAAACCCCAACTTTTNATTTTTTTNAAA

Sequence 3533

CACCGCGGTGGCGGCCCGCCGGNCNGGTNCTTTCTTTTCCCTTTCCACTGCCGTGTCTGTG
GGAATAGGTGGCTAGGCATTGAACAAAGAGCTCCGTGGCCTTGGCNCGTGAGCACCACG
CCTCCTGGTTGATGCTGGACACCTCGGGGGAGCTCTTCATGATCGACCCGGATGCGGGGA
TAGAGGCAGCGAGATGAAGCCCNCTGNTNCCCCCCCCCTTGGGCTTNACCCACGGACCACC
GTTACNCCATCTTTCCCGCCCNACGCGGGNGTTCCTTCGCNGTACCCTTNGNGAA
ACGCTTCTAAGAAAACCTAGGTGGGGATTCCCCCCCCGGGNCTTGCNAAGGGGAAAATTT
TTCCGGAATATTTCCAAAGGCCNTTNAATTTTGNATTAACCCCGTTTCCGGAANCCCTTT
CNNAAGGGGGGGGGGGGGGGGGGGGGGGGGTACCCCCCAANACCTTTTTTTTGGTTTTACC
CC

Sequence 3534

AACCGCGAATTGGTTTCCCCGANGTGNCGGCCGCCCGGGCAGGTACTNTCTTTCAAGTTAC
CCNTGTGCCTCCAGAATTTNATGNTGCTCCACCTGGGGGCGGATATAAATTACCTCTAGA
TTGTCCAAAGCCCAGTCTTTCCCTTCCCTGTGCAGCCTTAGAACTAAGTAGCAGTACCA
GCATGGTTAGGTTCTGTTGAGGGCTCTCTTCTGGGTTGTAGACTTCCAGCTTTCTCACTG
NGTCCTCATGTGGCCTTTAGTTAGTATGTGTAGGATTCAAGCAGTGTAACCAGGATTTCT
CCGGGTCTCTTATCTCTGTTGGTCTCATTTACTTTCACTCCAGATAAGCTTTCTTCATGT
TGCAAATGACATGGTCATAAATAGCCTCCTT

Sequence 3535

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGG
AAAGCAGCCTAAAGCCCCGGGACAGGCACACAGGCCAGGTGTGTAGGCCACAGCAGCCGC
AGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGATGCCTCGCC
TGTTCTTGTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCG
CGGCCAATGGAAGGACGATGTTATTAAATTAT

Sequence 3536

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGCGGCGCGGGTCCCTCCATATGCTGAG
CGCCGGTCCCCTGGGCCCACTTTTCTTTCTCTATACTTTGTCTCTGTTGTCTTTCTTTTC
TCAAGTCTCTCGTTCCACCTGAGGAGAAATGCCACAGCTGTGGAGGCGCAGGCCACTCC
ATCTGGTGCCCAACGTGGATGCTTTTCTCTAGGGTGAAGGGACTCTTNGAGTGTGGTCAT
TGAGGACAAGTCAACGAGAGATTCCCGAGGTGAAGGTACCTCAAATTTGAGCAGTTTTTG
TGTTTTGTGTAAATTAAAGTAAAAAGCAAGTCCACAATAATGTTTTGNAATACTGCACAC

Table 1

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CAGTTCTACCAGATTTTGTAACTATCAANATTTNAATGAAAAA

Sequence 3537

GAATTAGTTCGCGCGCAGATTGCCATTTGCGGCATGAGCACCTGGAGCAAAGGTCTCTG
AGCCAGGAAGATGCTCCTCANACACCTAGACCAGTGGCAGAAATTGTGCCATCCTTCATC
AACAAAGATACAGGAAACCATAAATATGATGTCAAGAATTTTGTGCTAAATTTTGCCAC
AAGGGAGCTTGAAGTTTAACCCCTGTCTGGAAGATGCCAGCCCAGCCATTTACCCACCA
GNCTTACAAACAAACATTGTTACCCCTCCGGCCCGCCTCTAAGAAACCTAGTTGGGAATCC
CCCCGGGGCCTGCNAGGGAAATTTTCCGAATTATTCAAAGCCTTTAATTCGGAATTACCC
CGGTCCGAACCTTCCGAAGGGGGGGGGGGGGGGCCCCNNGGTTNACCCCCCAGNCCTTTTT
TGGTTTCCCCCTTTNTTAAGGNTGGAGGGGGGTTTTAAATTTTGGCCGGCCGCCTTTGGG
GCGGNTAAATTNCAATTGGGGTTCATTAAGGNCTTGGTTTTTCCCTTGGTTGGTTGGAAA
AAAATTTGGGNTTAATTCCCCCGCCTTTCAACCAAATTT

Sequence 3538

CCGGGCAGGTACCATGAACAAGCTGGCCACAGCCATGCAGGAGGGGGAGTATGATGCATG
AGCGGGCCCCCAGCAAGCCTCCACCGGTTGAACTGCGGGCTGCTGCCCTTCGTGCAGAGA
TCACAGATGCTTGAAGGCCTGGGTTTGAAGCTCCGAAGATCCGAGAGNACAGTTNTTAAG
GTAGTTGAAGNAAGTTCACCTCAAGNATTTAAGGGGAGNAGGTTAGTCTAAGNTGAAGGN
CCAATGTTGCCGGCCTGAAGCTCTTCCTTGGGANGAAANNAAGGTNTGGGACCAGTTGCC
TTGCNCAAAGGNATTNCCAGGAATTGNAGNCNGCNATTNCGNAGNAANAGTTCCAAGGAC
CTTCGGTNTNNGGAGGGGAAGNACCCNAGGGCNANCTTGGCTTGCCGGAAAAAGNAAAGGG
AGNAAAAGAAGTTTTTTTGTAGGGGAGGACCAAATGGGGGAATTG

Sequence 3539

CCGGGCAGGTACTTGTGGAACAACATCAAAAGGTGGCAGGCCATATACAAACAGTTCGAC
ACTGACCGATCAGGGACCATTTCAGTAAGTGAACCTCCAGGTGCCTTTGAGGCAGCAGG
GTTCCACCCTGAATTGAGGCATCTCTTATAACCATGGATCATTNCCGAACGCCTAACNTC
AAGAATGAAAAAGTGGGGGAAACCATTGGGATTTTTTTGGACAAACTTTCATTCAAGGCNT
GGCATTGGGGTCAAGGGCTTGGGACCGCCCCATTGGTTTCCNCGGTGGCCNTTTCAAAAA
TTCTTCTTTTGGACCAAAAAGNATGGGGCNACCTTGGGAACCAAAAATTTCCCCANGGGTT
GGAANCCATTCCCAAGNGAAGTTGGGCCTTGCAAGGCTTGGACCTAATTGGTAATTTTCC
CCTGGAAACCTTGGGGAAGGCCCCCCCCAAGGAACCCCCGGCCCCCTTTTCAACCCCGGC
CCTTTTGGCCTTATTAAGGGGAAGGTTCAACCCCTTGGGGAAGGCCCCCTTCNNGGGGTTT
TTNCTTTNCCCCAAGGGGGCCCCGGAATTCCCTTGGTTNCTTGGGCAAAGTTNCAACCAA
TTTCTTTTTTGGTTGGGGGGGGCCC

Sequence 3540

AGGTACCAGNCAAACGTCACTCAGATGCAGTCTTCACTGACAACCTATACCCGCCTTAGAA
AACAAATGGCTGTAAAGAAATATTTGAACTCAATTCTGAATGGAAAGAGGAGCAGTGAGG
GAGAATCTCCCNACTTTTTCAGAAGAGTTTAGAAAAAATGATTGAAAAAANACCCTTTT
TGGAAGCCAAAAGCNTGAATTGACAACNTTCNCCAGTNGNAATTTTCTTTGAAGGNAAAA
ANTGAATACCNCCAACCAATTAAATTAATAAATTTTTTTGGAGTTTTCCTTACCNTTAAA
NGTTAAATTTTCNAAGGAAANAAACATACCTTTNCCAAATAATTCNCCAAAAACCCCAN
AAATTAATAAATAANTTAATTTNGNTGNTCTAGTTNGAAAATTGGTTATGNATGGAATTGG
TTATTTTTCTTAAGCCNTTAAATTTGGTTAAATTNAAACCTTGGTTGGAAANCTTTTTNA
CCAATTTTGGTAAAAAATTAANNTTATTTATNTGGAAGNNAAGNTTTCCTTAAAAATTTT
TATTGGTTCCTTTT

Sequence 3541

CCGCGGTGGCGGCCGGGGCTGGCGCGGTGCATCGTGGGCACTGTAGTTTCCGCCGCGTTT
ATGGCCGCGTTAAGTCTGAGTGCCGCTTTGAGTTGTTGAATGAAGTGAACCTCATTTGTC
AGCGTTCGGTACCT

Sequence 3542

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATGTTGTGGGTGCCGC
TCCGGGAGTCATAGCGCAGCCAGATCCCGAAGTTCTTCACCCGCACGGGGGACTTCTCAA
ACACCTGCCCACAGTAGACAATCTCCCTGAAGACTTCTTCATCTTCTTTAACTGAGATA
CAAAGTACTGTGAAGATATTGTAAACACAGCTGCATGGGGAGGTCAGCTTGAGCTAAGAG
CTCTGTCTCACATTTTACAAACACCAATAGAGATAATACAGGCAGATTCTCCTCCCATTA
TAGTTGGTGAAGAATATTCAAAAAAACCACTAATACTTGTATATATGAGACATGCATATG
GCTTATGAGAACATTATAATTCCGTTACACCGGTTGGTAAACATAGNTACTGAAAATTGC
AGCTAATTTATACAATGTTGTACCTGCCCGGGCGG

Table 1

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Sequence 3543

CGCGGTGGCGGCCCCGCATAATTTAATAACATCGTCCTTCCATTTGGCCCCGCGACTGCTCT
GGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCAT
CCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTG
TGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTAGGCTGCCCCCGCGTACCT

Sequence 3544

CGCGGTGGCGGCCCCGNCCGGGCAGGTACTTTCATAAACAAATAGGAAAATGTGATCTATT
GCTTCTTTTCTTGGTCCGTGCCCCCTCGCCTTGCTAAGTCAGTTTTTTCGACTGCCTGTGTG
TGTGTGTGTGTGTGTGTGTGCATGTGTGTGTGCGTATGTGTGTCCAGAGGCCACTGATCCAA
GTCCAAGTGTATTTAGAAATTATTTTCAGTGGCTNACAAAGGTCTTANAGGCCACTACTGN
GCTGGGGAAATCCATTGAGCTTGGCTTGTCTCTCTTGTCTTGGCAATGNGCACTNTGC
TTACATGCAAACACTCCTTAGGAAGATGCCAGTAATCTCTATTTTATGNACCT

Sequence 3545

ATTNTAGGGCGAATTGGAGCTTCCCGTGGTGGCGGCCCCGCCCGGGCAGGTACGCGGGGAA
GAAGGACATTTCTGGTAGCTGGTTCGAGGTGGTGACGTTGAGGATCTAAATTAAGACAGT
ATTATAGGAATGGGGAAGAGGAGGCAAAGTCAAGAACAATGTGAACATCAAAACCAGCAG
GACCTTACTATAAATGAGAGGGAGGAAGGACCAAGGATGCTTCTTATGTAGCTGCCTTCT
ATTCCTGGGTGACTGGTTGCACAGTCTCCTTAGAGAATCCAGGAACAGAGAGAATATATA
CCTTCCACTGGAAGAATCTCAAACAGCGCTGCTTACTCAGGATCAGTGGCACCAGCCAAC
TCAGCTTTGGGACAAACCCAGCCAAGTGACCAGGACACTTTAGTGCAAAGAGCTGAGCAC
ATTCCAGCAGGGAACGAACCTCCGATGTGCGCCCATTTGTAACCAGGTCATCAGAGGACCA
TTCTTAGTGGCACTGGGGAAATCTTGGCACCCAGAAGAATTCAACTGCGCTCACTGCAAA
AATACAATGGCCT

Sequence 3546

GTGGCGGCCGAGGTGCGGGGGACTGACTGGTTGAGCCGGGTAGGGAAAGCAGCCTAAAGC
CCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCTTGAAAGGCTG
CAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATNCTCGCCTGTTCTTGTTCACCT
GCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGA
CGATGTTATTAAATTAT

Sequence 3547

CCGGGCAGGACTGGGCTAAAAAATAGCCCTCAGCATCGCAATTCCTGATGAGGGTGTCCC
GGTTGGAGACCATGCCCCAAGCTGCTATGCCAATGGCCACAATATTCTCCTCTGAACTCC
TGCTGATGGTGTATCTCTCACCACCTCCCCGATGTACAAGAAGAACATAGGTAAATTTN
AAGAGGAAGCCAATATTTATGCTGCCAAAACAGCTGTCACTGCTACCAATGTGTCAGCCC
ATGGAAGCCAACTAACTCGCCCTCACTCCCACTCGGCTGGTTCTTCCAGTTCTTTTA
ACATGTNAACTCTGGAGATTTGTTCATGAGCCGTGCAGTTCACCTTAAATGGGGATTCTT
TACCAAGGGGCCAGGTNTGGNAGCCAACGTTNCAATCACAGGNGGGATACCCCTTCGNC
A

Sequence 3548

CCGCGGTGGCGGCCCCGGGCAGGTACCGCCTCTGTCCCTACCTTGTCTGTTAGCCATG
TGGCTGCCCCATTTATCCACCTCCATCTTCTTTGCAGCCTGGGTGGCTATGGGTACACAA
ATACAAACATGCACTCCCCCACACACACACATACATGGACACACACAGAGGCATATCATG
CATTATCTTCCCTCATTCATCGATATTCTCAAATGGCTTATTACACAGATTTACATTCAC
AAATATTCTATTATGTAAATGTAAATCTATTCTATTATGTGAATGTAAACCTATATAATA
TATTTAGCCATTTTCTCAGTTGGATATTTTGGTTATTTCTATGTTGNCACAATTTTAAAT
CACATTGAAATAAACTAGGCCCTTTGGACTCCTTTCTTTCTCTCT

Sequence 3549

CCGCGGTGGCGGCCCCGGGCAGGTACCCTAGTTCCACACCCAAATCCCATAAAACAAT
TATCTCCAGCCTCTCATCCTCATCCCATCCATTTTTGGTTAGACCCAGGTAAAGGGTAG
GGTGCCCAAATACTTCCCTTGCTGAGCTGGGAGGAAGGCAGAGGCAGAAAATGTAAAGCTC
CAGATTCATTTTATACAGGTCTTCTGGGCTCTCACTGCCAGTCTCTGAGCTTGATCCAT
CTCCCCAAGCCGAAGCCCAAAGGGAAATGCAATGAGGTATTTCAAAGGCTTATTCTTAGC
TTCTGAGCTTCTGAATGAATTGCATTCTATTTCATCCAGGGAGCCCTGGATGCCCTGTTT
TCTTGAGGGATGTCTTGGTCCC

Sequence 3550

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGACAC
CCAGCCACTCTGAGCAGAACTGACAGCATGAAGGCACTCCTGGCCCTGCCGCTGCTGCTG

Table 1

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CTTCTCTCCACGCCCCCGTGTGCCCCCAGGTCTCCGGGATCCGAGGAGATGCTCTGGAG
AGGTTTTGCCCTTCAGCAACCCCTGGACTGTGACGACATCTATGCCAGGGCTACCAGTCA
GACGGCGTGTACCTTTAGTGGTTGCCAATCTGGGCATGTCTGAACAACCTGGGTTATAAAA
CTGTATCAGGTTCCCTGTATGTCCACTGGTTTTAGCCGAGCAGTACCTGC

Sequence 3551

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGAAGGCAGTTTG
GAGCTGGGGCTAAGCAGCTGTCGCACGGTCAGATCATGGGCTCCACCAAGCACTGGGGCG
AATGGCTCCTGAACCTGAAGGTGGCTCCAGCCGGCGTCTTTGGTGTGGCCTTTCTAGCCA
GAGTCGCCCTGGTTTTCTATGGCGTCTTCCAGGACCGGACCCTGCACGTGAGGTATACGG
ACATCGACTACCAGGTCTTACCCGACGCCGCGCGCTTCGTACGGAGGGGGCGCTCGCCTT
ACCTGAGAGCCACGTACTATAAGGAATTCAAGTTAACAGAGGCTTGATTTATATAAAAGA
AAGCTGCAGTTTTAAAGTTGTGTTCCTTAAAGACCAGATTATAGCTTATCTGAATGGGCT
TGACACTTTCAAATGGAATAAAAGTTACA

Sequence 3552

GAAGCTCCCCGCGGTGGCGGCCGAGGTACCGGCGGATGTCGGTGGTCTACGGGATCGGCA
CCTGGTCTGTGTTGGGCTCACTGCTTTACTATAGCCGGACAATGGCGAAGTCGTACGTAG
ACCAAAAGGATGGCTCAGCAAGTGAAGTACTTTCAGGATGCTTTTTGTATGTATATCACA
TAGAGTAGGTTGGTTTTCTGAGTAATTGGGATTCCAAGTATAGTCATTGGTGTGACC
ATAATAAAAACAAAAGCTAAAATAAAAGCATCAGATTTAGACTGGCGCTGTGCCCTCTAC
CACTATATGCCAAAAAATTGCTTCTCTAGTGCCATTTTGATATTATATCTAGCTATAAAT
AATACATGGACTATTGTTTTCTATTGAATGTCAAAGACTTACTGGGTCTTTACACCTCTG
TAAAGTGGAGGTTTT

Sequence 3553

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGGAAAAGAGCT
CTCCATTTCTCAGCAGGGGACACCCTGGTCCCCACTGCCACTTTGTTTGCCCTCCAAGGG
AAAACCTCTCAATACCAGGTCCAGGAGCAGCTGGATGGGATCACTCAGAACC

Sequence 3554

AGGTACTGTTACTTCCTTTTGCTGTCAGAGGGTTGTTGACAATGGCAAGGGGGGATGTTA
GTGAGATCCAGGTGGTGGTGGCTTCTTGGTCCACTCANCTTGACACATGCAAGAGGAGG
GTCTGTGGNCCCTNANCCNNGCTGGTGGCCTCCTTCAAGCTTTAACTTGTGCCCTCC
CTGGCAACAGGGAGTCATGGNTTAATGTCACCTGTCATGCCTCTTTCTTCAGGGAAAATA
TTAAAAGGCTCAAATCCAAGCTGTGACTTCCCTTAGACAGTGTAANCCTGTAGGGTGCAC
CCCCAANTTTATGTCCAAAGGCTGCCTNANAACCCTGGAGGGAGCAGCGCCAGCTGGCA
GCTCACTCTCCCCTTGCANTNCACTGGCCTTTTCGCAACCCAGGT

Sequence 3555

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGTGAATGACTGGCCCACTCTCCCTTGCTCC
ACTTCCACATGTTTCTCAGCGGTCCGTATGTTTCAAGCTGCTTGTGCAGCTCACCGACA
TTTCTTACTGGGTTAATCTCTTCAGAGACATTCAACTTGCTGACATCCCCACATTTTCCC
AGGAGATTATAAGCTGCCCCAGCAGCAGGGTTTGGGGCAGAAGTGAGAGGGGCAGGCTAT
CTCACCAATCTCCTCTTGGACTCAGGAACCTTGCAAAGGTTTCAAAGATGAGGAAGAAT
CTAAAAGAAAAGATCATTAAAGCTGTGCCAGTGTTCTCTTGCAACAATTCTGGAACAAA
ACTTTACCCTGTTTCCAAATTTAAGCTAAATTCGTTGTATTATG

Sequence 3556

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGAANATGGAT
AGCAATGGTGTGATCACAGTAAAGCCTGACTTCACGGGCTCAAAGGACCCTACAGGATT
GAGACGGAGGGGGAGAAGCAGGAGCTGTGGAAATATACGATCGACAATGTTTCCCCCAC
GCACAGCCGGAGGAGGAGCGGGAACGGCGAGTGTTCAAGGATCTTTATGGCCGGCAC
AAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGATGACTGTCCCAGGTGCCCTC
CGGCTCTTTGTAAATGGAGAGGTCGTTTCAGCCCAAGGCTATGAGTATGACAATCTCTAC
GTCCACTTCTTTGTAGAATTGCCAACTGCTCACTGGTCAAGCCCAGCATTCCAGCAGCTC
TCAGGAGTAACACAGGACCTGCACCACCAAGTCCCTGGCA

Sequence 3557

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATGGTGGTGGGAGAAAATGACCACTGGCCAA
GAGGACTGCTGACCTGTGCACCAGATGGAAAACTGCAACTCAGAAATGTAAAGTGAGTC
GACCAAGGCTAAAGCGGCAAAACCACTATACTTTATAACACAGAGTTTGGCACTATTTCC
ACTTTGTTCTCTCTCAAAGATGAAGGCTCAGGAGGAGGGAAGATAAAAACAAATCACTGG
AGAGTCCTGGCATGCCGGAACATGGACTCTANCTAGCAAGAAGGGCTCAAGGAGGTGGCC

Table 1

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TTCTCCTAGACCTCAACTTTGATGCAAAAGCTGTTTTGCANCCTGAACAAAGACAATCCA
ATCCTNCANCAAATGGCNGTCATTTTTTC

Sequence 3558

CTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATCTACCTAAAGGACT
ATTATGTGGAATAATACATACTAATGAAGTATTACATGATTTAAAGACTACAATAAAACC
AAACATGCTTATAACATTAAGAAAAACAATAAAGATACATGATTGAAACCAAGTTGAAAA
ATAGCATATGCCTTGGAGGAAATGTGCTCAAATTACTAATGATTTAGTGTGTCCCTACT
TTCTCTCTCTTTTTCTTCCTTTTTTTTTTATTATGGTTAGCTGGGACTAGAGGAACGTGC
CACCATGACTGGCTAATTTTCTGTATTTTTTAGTAGAGACAGAGTTTCCCATGTTGGCCA
GGATGGTCTCGATCTCCTGACCTTGTGATCCACCCGCCTCAAGCCTNCCAAAGTGTTGGG
ATTACAGGTGTGAACCACTGTGCCCGGCCTGTGTACCT

Sequence 3559

ATANGGCGAATTGGNNCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTCC
ATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGA
ACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCCT
TTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTA
GGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCT

Sequence 3560

AGGTACGCGGGGGCAGCCTAAAGCCCCGGGACAGGCACACAGGCCAGGTGTGTAGGCCAC
AGCAGCCGCGAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGA
TGCCTCGCCTGTTCTTGTTCACCTGCTAAGAAATTCTGTTTACTACTGAACCAATTTTC
CAGAGCANGTCGCGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3561

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGGAAGCATGGCGGCTTCT
GGGGAAGACTTACGAACTTTNACTCATGGTGAAGGCAAAGTGGGAGCAGGCGTNTTAC
ATGGCTGACGAGGACCTTGCCCTTCCCTCCCGCCTNATCTTTTCAAACNTGTNGTGCTCTT
GATGCTCTGGCCACCTTGACCTTCCCTTTGNTNCATGAATCCCCCAGTATCATTCTTGCT
GGGGGACGCTTTTCTCTTGCTGTCTCCACGGTTGGAATGCACTTTCCCTGGATCTTACA
ATGGCTGGTGTTTTCTCATCATGTCACATCCTTAATCANACGGTTTTTCTTGACCCCT
GTCTCCAAGTATGGAGTGTCTGACCCATCTTCCCTCTGGTCCATCACCCCGCGTTAC
CT

Sequence 3562

CTAATACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATA
ACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAAT
TCTAGCAGGTGGAACAAGAAGAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTG
GGTGTGTCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCT
GTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCT

Sequence 3563

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTNTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAAGAGGCGAGGCACCCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGNGGCTGCTGTGGCCTACACACCTGGG
CCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCTCCCCG
CGTACCTGCCCCG

Sequence 3564

CCGCGGTGGCGGCCCGAGGTACAGAACAGTAAAGTTAAACGGATGTCTCCATTGATCTG
CCAAATCGTTATAGAGAGCAATTTGTCTGGACTAGAAAATCTGAGTTTACACCATACTG
TTAAGAGTCCTTTTGAATTAACTAGACTAAAACAAGTGATAACTAACTAACAAGATT
AAATATCCAGCCAGTACGCGGGGGGCTATTTAGGACGGAAGCTCGGTTGGTGTCTCTCCA
GAAGTTTCCCCCTTGGGCGGTGGTGGAGGTGGTAACCGTGATAGTAGCAGCTCCGGCGGC
AGCAACAGCGACTACGAGGGATGGCGGCGGCTGCAGCANGAACTGCAACATTCCANAAGG
TTTTTCCAGAGCTTCTCGGATGCCCTAATCGACGAGGACCCCCAGGCGGCGTTAGAGGAG
CTGACTAAGGCTTTGGAACAGAAACCAGATGATGCACAGTATTATTGTCAAAGAGCTTAT
TGTCACATTCTTCTTGGGAATTACTGNGTTGCTGTTGCTGATGCAAAGAAGTCTCTAGAA
CTCAATCCAAATAATTCCACTGCTATGCTGAGAAAAGGAATATGTGAATACCATGAAAAA
AACTATGCTGCTGCCTAGAACTT

Sequence 3565

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGGAAAGCAGC

sequence 3576
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCATAATTAAATAACATCGTCCT
TCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGT
GGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAG

Table 1

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CCTTTCANCTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTCCCCGCGTACCT

Sequence 3571

CTATGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGGTCCCTGAGGA
GCGACCTGCCGGGGCCACCTGGCTGGACGAAAAAGACACACCTTGGACTTAAGCCGTGAG
AAAAAATTTCATCAGTAAGAAGAATGAATAAACAGACTAGGTTGAATCCATACAATGGAA
TGTTGCAGCAATAAAAAAGAAAATGAACTATTGATGTCCCCTACTGCACAGCAGAAGCTCT
GAATCGTGTTCTGAATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTC
TGGAAGGCCAAGAATCGAAGTAGCAAGCTGCAGCCCGTTTCCAGACAAGCAGGATGTGG
GGATGCAGAAGAATTCAGGACTGGAGGGGGCAAACCTCCGTAAGCAGGGGCTGTCACCGATT
CCCATCTCCCTCTATAAACCTCTCTCTTTTCATGTCTGCTACCTGCCCGGGCGGCCG

Sequence 3572

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACATTTCCAAAG
TCAAGAGTCAAATAAAAAAATCCCATGGAATTTGGAGCCTATTTAGAACTCAAATAATG
AGAATGCTGCAAATCAAACCTTGTGACATCCCCTAAAGCTGTTCTTAGAGGGAAATTCC
CAACACACTAAATGCTTACATTAGCAAAGAAGAAAGGCTAAAATGAACGAGCATCCAAGT
TAACATGTTAGAAAAGGAGCAACAGAGAAGACTCAATAAAGTAAAAGGAAGGAAACAATA
AAGATAAGATTAGAAATCAATGCAACAAGAAAACAAAGATAAATGCTGGAGAGGATCTTG
GTTTTCTGAAAAGACAAATTAATGGGTCTCTTGGCAAGACTGAGAAA

Sequence 3573

TACTATAGGGCGAATTGGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGAG
GCCACTGGTTCTCAAACATTAGGGTGCCTGTAAACATTACAGAGCTTGTGAAAAGTGCA
GAAACCTGAGCCTCACCTTATGAGATTCTGATTCAGCCAGGGGGAGGACAGGAATCTGTA
TTTTCATAGCAACCTCAAGTAATCTTTATTCTGAGGGTCTCGGGATTGCAGGTTGAAAAA
CACAACCTTAATCAGCAGTAAATCTTCTCTACTCGGCCAGGCGCAGCGGCTCATGCCTG
TAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACAAGGTCAGGAGTTTCGAGACCA
GCCTGACCAACATGGTGAAACGCCATCTCTACTAAAAATACAAAATTAGCCGGGCGTGG
TGGTGCTCACCTGTAATCCCAGCTACCCAGGAGGCTTGAGGCAAGAGAATCACTTGAACC
C

Sequence 3574

CCGCGGTGGCGGCCGAGGTACANGCTGCCCAAGGGCGTTTCGTAACGGGAATGCCGAAGCG
TGGGAAAAGGGAGCGGTGGCGGAAGACGGGGATGAGCTCAGGACAGAGCCAGAGGCCAA
GAAGAGTAAGACGGCCGAGGTACGGGTTCTCCACCAAATTTGGGCTGAGAAATTTGTTA
TATCCTGCTGTGAGGTTCTCAAAGCCAGGCAGGGAAAGCTTGTCATTCTGCCGACCTCG
ACGTTGAACTGACTCCCCCTGGATGCACATCCTCTCAGTGAAGAGACTCAGACACACGAAG
GCCAAGTGGAGGCTGTAGTTTCATGTTGAGAAGCTGCTCACACCAAGGGGCTGAAGTAGGA
ATCACCAGGTAGTTGTTGAGGCTCTGTTAGGGCAAAGTCCTTCAGGCCTACAGGCAGGAC
TTCCAGGCAAGGCACGGTCTTCTGGGTCCCCAAGGTTCTTCTNATCCTCACCTGTCCCC
TCGTATGTGGACACGCACCACCCTCAGATGGAGTCCCCGCGTACCTG

Sequence 3575

GAATTGGAGCTCNCCGCGGTGGCGGCCCGCCGGCAGGTACGCGGGGGGAATGATGCGTAT
ATGATTCTGGCACAACCAGTTCTTTCCCCGAAGCAGCTGTTGCCACCACCCTCTTCCTGC
CAGGCAGTGGAGGAAGGTGCTTGCAGGAGCTGCGGACACACTGTTGTGTGTTAGNATCTA
CTTAGCTGGCCTCATGTTCTGCTTTTGTGCTGGCAGAATTCCTTGCTGAAGCTGTAAGCCCT
CGAATCTGATCTGTGCTCTGCATTTTAAACAAACCAGGAAGAAGCTGCTCAGGTGCATGG
AGTCAAGGACCCGGCGCCAGCATCAACCCAGAGCGTGCTTGCCGATGGGACAGATTCTGC
AGGTAAGATACAGGGCTGGGGGTGTCCCAAATTGTACCT

Sequence 3576

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCATAATTTAATAACATCGTC
CTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAG
GTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGC
AGCCTTTTCAGGACTTGCGGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCC
GGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCT

Sequence 3577

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAATCAGTATCT
GCCATATGGCTGGTCTCTGTAGACGCCCTTTGCTGTCCTCGCTGAAGGTGCCTTGTGTCT
TGAGTTAGTCCACTCTTCTTGGCCGTAGGAATCATAAGTCTCCTCACTGAGTCCATGTCC
GTAATCATAGTAATCAAGCACCCACTGCAAGTGCCACCTTGGGAGTGTGGCTTCCACGTG

Table 1

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GGAGTCTTCCTGTTTCATCTGCCAAATCAGGGGCTGGTCTAGACGCCGCTCAGGTCTCCTG
GCAGCTCTAACATCTTCCATGGCTCTTTCACAGCATCTAGCTCCACAGTAGTCAACATAA
TTTCTCATTTTTGTTGAAAATAAACTGGCAAATGCTTCTTGGAAGCTCAGTGCTAAAATT
AAAATGAACCTCAGTCTTCTTTCCAAGGGT

Sequence 3578

ACTACTATAGGGCGAATTTTAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGAGCAGCC
TAAAGCCCCGGGACAGGCACACNGGCCAGGTGTGTAGGCCACAGCAGCCGAGTCCTGAA
AGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGATGCCTCGCCTGTTCTTGT
TCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAAT
GGAAGGACGATGTTATTAAATTAT

Sequence 3579

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTC
CTTCCATTTGGCCGCGACTGCTCTGGAATTTGGTTCAGTAGTAAACAGAATTCTAGCAG
GTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGC
AGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTCCCCGCGTACCT

Sequence 3580

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACATATCCTGAGCTA
TCCACAGTCCCCGAACCTCTGCAACATTGCTTTCAGGTGATAGAGACAAGATGGTCCATGC
AAATGAGCTGACACAAGTCATGTCTGTGCAATCAAGATAGGATCCCAGACATCTTCAGA
ATGGTTTACAGTCACAAGAAATAAAGTTCCAATGAAGTGGTTGGCATTGGAAGCACACT
GTTTTAAATATATCTCCCTGAAGGTATGTTTATATATTAGTGCACCTGGTCAATATCTGAC
ACTATCTGTCAATTTTATTGCAAAAGGATATCAGGGCAATTAATAGGAGGGATCTTAGCAC
TACTTTAGGACAATCTTTAAAGCCTGGGTAAAGATTCAATTAGCTACCCAAGTGGCATTCT
GACTTCAAATTGTAGTATCATGCCAAGATTT

Sequence 3581

CCGGGCAGGTACGCGGGGAAGGCTCTTCTGTGTCTTCCTGACCAGCTGCTCTGTTCCCAG
CTTAGAGGACCAGAGGGAGAAGCCACCTGCTACACGCTGGATGCTGCAGCCTGTGCCACT
GTGGCTTACATCGCTGTGGTGGTGGCAGCAACGGAGACTGCAGCCAGCTGGAGTGCTGTG
ATGACAGTGCTTATCAATCCTGTCCCCGCCACACCACCAACATACACAGAAAAAAGCAG
GCAATGAGTTGGCTCCGGGATGACCTCGTATGAAGACGTTTCATTCCTTAATCTTGCAA
TTGACATCACAACTTGGGTACCTCGGCCGCTCTAGAACTA

Sequence 3582

CGCGGTGGCGGCCCGAGGTACTGTTACTTCCTTTTGCTGTGTCAGAGGGTTGTTGACAATGG
CAAGGGGGGATGTTAGTGAGATCCAGGTGGTGGTGGCCTCTTGGTCCACTCAGCTTGCAC
ACATGCAAGAGGAGGGTCTGTGGCCCCCTACCNGCTGGTGGCCTCCTTCCTCAAGCTTTA
ACTTGTGCCCTCCCTGGCAACAGGGAGTCATGGGTAAATGTCACCTGTCATGCCTCTTTC
TTCAGGGAAAATATTAAAAGGCTCAAATCCAANCTGTGACTTCCCTTAAACAGTGTAAGC
CTGTANGGTGCAACCCCAAGTTTATGTCCAAGGCTGCCTCAAAACCCTGGAGGGAGCAA
CGCCCAACTGGCANCTCACTCTTCCCTTGCAGTTCACTGGCCTTTTCNCAACCAGGCTAA
AATAGGCAATGCAAGGAGCTTTCCTACTGGCCAAAACAACCTGCCTTTGTAAAATGTGGGGC
TGGCT

Sequence 3583

CGCGGTGGCGGCCCGCATAATTTAATAACATCGTCCTTCCATTTGGCCCGCGACTGCTCT
GGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCAT
CCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGAGCCTTTCAGGACTGCGGCTGCTGT
GGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGCTTTAGGCTGCTTTCCTACCCGGCT
CAACCACCCCGGTACCT

Sequence 3584

GCCGNCCGGCAGGTACAAAGCAACCTGGTTGGCCAATAGTTGAATTGACAAATGAGATCA
ATTAANCAGNGGCTACTTGTCAAGCCAAAGTATTTATTCAGGTGTTTATAAAATCTTGAA
ATTACTCATATTCACAACTTTTTTGAACANAATTTGCATAAAGAGGAATATATTTGTAA
ACAAGACCTCTGACTTGTATAAGTTCCTTGGAACACAGGCAAAGCACTTTTATATATGCA
GAATTATTTNAATTATTTCAAAGATCAAAGTTCCTACTCTTGGCTCCCCAACTTGCTGT
TCATGTTTATAGGACTCATTCAAGAATTTTCTATATCTCTTTCTTATATACTCTCCAAGG
TCATAATGCTGCTCCATGCCAGCTGGGTGAGTTGGCCAAATCCTTGNGGCCATGAAGGA
TT

Sequence 3585

Table 1

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ATAACTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAT
TAAACANAATTCTAGCAGGTGGAACANGANCAGGCGAGGCATCCTGGGCCTGGTCTCTCC
TGGAGGTCTGGGTGTTGCAGCTTAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTG
TGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCACCCCGCGTACCT

Sequence 3586

CCGCGGTGGCGGCCGAGGTACCTTTGCCCTCAGGCGAGGAAGGGGAATATGTCCTGGCAC
TGAAGCAAGAGCTACGAGGAGCCATGAGGCAGCTCCCCTACTTCATCCGGCCAGCTGTCC
CCAAGGGAGATGTGGAGCGTTATTCAGACAAATATCAGATGTAGGTCCGATTGACAATGC
CATCGATTGGAACCCTGATTGGCGGCGTCTACCCCGGGAGCTAAAGATCCGAGTGCGGAA
GCTACAGAAGGAACGGATTACAATTCTGCTCCCCAAGAGGCCCCCTAAGACCACAGAAGA
TAAGGAGGAAACAATACAGAACTAGAGACCCTGGAGAAGAAGGAAGAAGAAGTAACCTC
AGAGGAGGATGAGGAGAAAGAAGAAGAAAAAAGTACCTGCCCCG

Sequence 3587

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGGTACACCAATCAAACATAGTGTGT
CCAGAATTGGTGGGTTCCTTGGTCTCACTGACTTCAAGAACGAAGCTGCGGACCCTCACGG
TGATTCTAAGCACATTAAATCTGGATGACACTTATCTGAATCATTTTCGCAACTTGGAGA
GAGATGGAGAAGACACGCATGGTGTAAGTGGGCATCACCAGAATGTGCACTGCCATCTGT
GGCTGTCTTCTGCTGGCAAATCCTTTTCATTCCAAGCAAATAAGATTCCCTAAATTAGA
CAAAAAGGAAGAAACACAACAGAGTCCATAATTCTGAGAGGAAGAGAAGAGTGATCATCA
GCAGCAAAAGGCAATTGCAGAGAAGCACCAAGAGCCAGCTTCATGCTCAGGAGTGAA
TGCTGAGCCCGCTCCTCGTGGTTCGCGGTGCTCCACATGTTCAAGAAGAACTTCTCTGG
TAAGAACTATAGAAATGGTGCATGGAAGTGTTACTAG

Sequence 3588

AGGTACGCGGGGTCCGCCCTCCCTTAAGATCACGGAAGTATCACGCTTGCTCTTACACA
ACTTTTTTTTCTTAGTCTGTATACTTTCTGCTGTCACTAGCATAACAGAAAAGACGAATG
GCTTTTGTTTTAACTGAGGGCACTTTTACAAAAGTCATCTTTCCATTTATTTTTCTTTC
AGAAAAAGAATTTGGGTTTTGAGCTTTTTTAAAAAAGACAAACACTTTCCTTGAC
TTTGAGAAATAATTTAAGTTCAAAGAATCTGCTCTATGCTAACCAAGAGATAGAGCACAG
CAAAGATCTGCCAGCCCCAGGCCTTTACCTAGTGGNCTGGAAATTCAAG

Sequence 3589

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAATGAAC
TCATTCTGTAAAGAGTCTGCTCTGACAGTAGCATTGAGACATTACTGCTTTAAATGCA
TTTTTCATGGTTCAAATAATAGCACTATTAAAAAATGTTTCTCAACAAGGATTTGTTTTT
TCCCTAAGAAGCTTAATGTGGACACTACAAATAATGACCAAAGCTGCTGAGTATGGCATA
ACAAAGAGAAAACAAAGCACTCATCCTGTCCTCCAGATCATGCCCAGAACACTGTCTACC
AACATGTGGCTTGCCAACTGGAATGATGCAAATGTCAGACCCACATCTGTGGAAAAGGGG
CTCGCCACAGGAAACAAGCTATTGGGGAATGGGGAGAATGATATAATTAGAAATTTAAG
ACACAGTATAACTCAGAAAAATGTTGGCTGGGCAGCACATTGCTAAGACTTGAAATCTTT
ATTTTGNTCTCTTTTCAAAA

Sequence 3590

CGCGGTGGGCGGCCGAGGTCCGTNTTCCAGTAAAANNGGACATTATAATTAAACATCTTC
AAGANCNTNTNAGGNCGTNTGCACGTNTACTGTGGGGCGCACAGCACAGNTGGACGCAG
GGGCTGGGGCTCCAGGGCAGTTGCTGNACACCCGCGGGTCTACCACACTACACTCAGAAA
CGTCACACCGGANTTGGAAGAAAGCCACAGNTTGCTNNCTTCCGACAAAGAGCGGATTCA
CAGTCCGTTTCGATCTCANAGAANTGAGTGGGGCACCCACTTNATGGGGCCAACCCCACTA
AAAAANAAAAGGCAACGCAACCAANANCTAANACAAAAACCAAAAACCCACACAACCCCC
CGATTNTTTTGAAAACCTCCCGNGTCTGCCCCGGGCGNGNCNTTCTAGAACTAAGTGGAT
CCCCCGGGCTTGCAAGAATTCGATATNAAAGCTTATCGATACCCGTCGACCTTGAGGGGG
GGCC

Sequence 3591

TATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTC
CATTTGGCCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTG
GAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGATGTTGANCT
TTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTA
GGCTGCTTTCCCTACCCGGCTCAACCACCCCGCGTACCTCGGCCCGTCTAGAACTA

Sequence 3592

ATCACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCAG

Table 1

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CCTAAAGCCCGGGACAGGCACACAGGCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTG
AAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGATGCCTCGCCTGTTCTT
GTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAA
ATGGAAGGACGATGTTATTAAATTAT

Sequence 3593

CCGCGGTGGCGGCCCGCCGGGCAGGTACAGGGGAAAAGAGCTCTCCATTTCTCAGCAGGG
GACACCCTGGTCCCCACTGCCACTTTGTTTGCCTCCAAGGGAAAACCTCTCAATACCA
GGTCCAGGAGCAGCTGGATGGGATCACTCAGAACC

Sequence 3594

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGGCGAAGAACG
CAAAGCTGAGAACATGGACGTTAATATCGCCCCACTCCGCGCCTGGGACGATTTCTTCCC
GGGTTCCGATCGCTTTGCC

Sequence 3595

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGACG
CCACTGCGCACGCGCGGCCCTTCTACCGTTCCCGACTCCGCGGCTCTTAGAGGGTGGGC
TGTGTCCCGGCTGCGGAAACGCCAACTCCAGGCGATTGGCGCGAAGGAGGCGAAAAGGGC
GGATTTCCCTTTTCCNGGTTCCGGCCCCGGGCTGCAAGGTNCTTTATCCCGAAGCTGGGG
TTACTAGGTGAACA

Sequence 3596

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTCTGGGAGTGTCTGTCTTAT
GTGGTTGAGATAAGGACTGAGATACGCCCTGGTCGCCTGCAGTACGCGGGGGGGTGGCG
CCGACCGTTCCGCTCTTCCGGCCAGGTGCTTTTCTGTCAATTTCTATGGAATGCAAAAGG
AGGTTTTTGTNTTATNTTTGTCTNTTTNNTAAAAGCTTTAAANAAAAAAATTTCTACNAT
TCTTTATACTTTANAGCCTCCATAACTTAAATAAAAAANNAAAATGTAAANGTAAATCA
ATAAANAANNAAACTTGGGGCTCAAATTAATAAAAAAAAAAATAAAAAANTTCCTCGGCC
GCTCTAAACTAGNTGGATCCCC

Sequence 3597

CCGGGCAGGTACCAGTTGTAAAATTACCAGGAACCGCCATGCCTCAAGATCGCCCTGTTT
TCTGGCTTCATCAATGACTGCATGCAGTGCACCACCCTGTCCACTACGTGATGCTGTAGG
ATTAAGTCTCACAGTGGGCGGCTGAGGATACAGCCGCCGCGTCTGTGTTGCCGGTGAAT
TAGACGCCATCGCTGTGGGTTGCTGGTATGGTGCCGTGCTATTTGGCACAGGACACACCG
CTTGAGGTCTGTATTGAACCTCTGAAGGAGGCCGATACTGAAGCTCGGTTGGCAGCCGGT
ATTGATAAACTACCAGCGGTTGGGTCTTATTTTCTACCGGCTGATATTGTGGATACTGTA
TCTGAGTTGGCATTGCCGGGATAGAGACTCTGTCCCTTTCTACTTGATTTTCT

Sequence 3598

CCGCGGTGGCGGCCGAGGTACGCGGGGAGGGAAAGCAGCCTAAAGCCCGGGACAGGCACA
CAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCT
CCAGGAGAGACCAGGCCAGGATGCCTCGCCTGTTCTTGTTCACCTGCCAGAATTCTGT
TTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGACGATGTTATTAA
TTAT

Sequence 3599

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCCTCATAGAGA
ATCTCAGTGGATTAAGGCAGCTGTAACCTGTTTTTGGACTGCAGTTACAGAGGCCAAGGTA
TAGAAGAAAGGTAACGAGAGTGCCAGGATAGGAAAGTTCTGAGATGAAGACAACCTGGCA
GCTCAAAGTCACAGTTCATGCCCTGTTGCTTCAGACCAAATTCCTCTACAGCCTGAAGC
AAGCTGGCCTTGCCACAGAGAACTGCCTTTCTCCATATGCAGCCACCTCCCTCAGGGCA
ATTCCTTGCTTGATCCTCACTGCACCTGCTTCACCAGCATCTTGGCTCTTCATCTCCC
TACCCCCAGAGAAGCTTTCCATTTAGGAGCTCGCAACGCCCTTCCTAGGCCATGCCAGTG
TTTTAATTTGCTGGAGACTA

Sequence 3600

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTNTNTTTTTTTATTA
TTNTNCTNTTACTATGACCTGCTTTGATCATNNNCAACNAAACAGCCTNAGGGATTATGC
CTACACGAAAGCTTNGGTAANGACATGNTGGNNNTNCGCTNNACGAGGGNNACCNAACA
CCTAACCTAANAGCCCGTGACACTGCAGCAAGGTGCTGCCACACTTGCACCGTCACGAA
GAAAAGCGC

Sequence 3601

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCCATCGCAAAG

Table 1

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TTGTTAACCCAGAGTCTTCTGGCTGTGCTGCCTCCTCTGCTTTTAATCTTCTGTGGATA
TTTCTCCGATTTCCCCCAAAGGCCACAGATCCTGGGGGAAGCCACCCCATTCGGCCACC
GATCATGGAAGAAAGTATTACTTTTTATTACCAAACATTTTAAAGATGTTGGAAGATCC
ATATGCTGCCTGGAGGCTGTTGTTTCTAGGGACACAAGTATCCAGCCTATATTGTTACAA
TTTTTTTCAAGAACTGCCGTCTTCTTTGTCTGCACTAATGGAACATCATCTTCAGCGGGC
TATTTACAGCACAGCAGGTGTATGGCGAGAAGAGGGATAATATGGTTATACCGGTCCCAGA
GGCAGNAAAGTAATATT

Sequence 3602

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGCAGCCTAA
AGCCCGGGACAGGCACACAGGCCAGGTGTGTAGGCCACAGCAGCCGAGTCCTGAAAGG
CTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGATGCCTCGCCTGTTCTTGTTC
ACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGA
AGGACGATGTTATTAAATTAT

Sequence 3603

TTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCCGGGCAGGTACGGCTTCGGAGGC
TAGGCCGCGCTCCAGCTTTGCACGTTTCGATCCCAAAGGCCCTTTTATAGGGCCGACCAC
TTGCTCATCTGAGGAGTTGGACACTTGACTGCGTAAAGTGCAACAGTAACGATGTTGGAA
GGCTTATGATTTTACTGTGTATTGTATTTGGGAGAAGAAATCTGTACAGCTCCCAAAGGA
TAAACCAGCAAGTTGCTTTATTGGTNTTCAGATGTGGCTGCAACACTTGAGACTGAACT
AAGCTTAAACACGGTACCTN

Sequence 3604

ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGACACAGGCC
AGGTGTGTAGGCCACAGCAGCCGAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAG
AGGCCAGGCCAGGATGCCTCGCCTGTTCTTGTTCACCTGCTAGAATTCTGTTTACTAC
TGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3605

CCGCGGTGGCGGCCGAGGTACGCGGGGGAAGCCGCCAGTGCCCTGAGCGTCTCCATGGC
CTGCCTGAGCCCCCTCGCAGCTCCAGAAGTTCCAACAGGATGGATTCTTGGTGTGGAAGG
ATTCTTGTCTGCAGAAAAGTGTGTGGCCATGCAACAAAAGGATTTGGCGAAGATAGTGGC
TTGAAAATGGGATTGTTCTCTCCACTTGGCCGCACCAGAAATNTTCCACCCAAGGAAA
AGAAGGAAGCAGCTTTNNAAGCCCCAGGGCAAGCACAAAANCTTATTTTTTTGAGCCAGT
GGGTGACAAAGAATTTCNATTTNTTTTTTTTAAAAAAGGGCCTTTTTTTTGANTTGAAA
AAAAGGGAAAATTTTCTTGGGTCCCCTTCCCGGGAAAAAATTCNATTCAACCAAAAAA
ATTTGGGCCCACCNCTTTTTTGAACCGCCCCAACANAACCCCTTTT

Sequence 3606

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCC
TTCCATTTGGCCGCGACTGCTCTGGAATAATTGGTTCAGTAGTAAACAGAATTCTAGCAGG
TGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCA
GCCTTTCAAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGG
CTTTAGGCTGCCCCCGCGTACCT

Sequence 3607

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCC
TTCCATTTGGCCGCGACTGCTCTGGAATAATTGGTTCAGTAGTAAACAGAATTCTAGCAGG
TGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGCCTCTCCTGGAGGTCTGGGTGTTGCA
GCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTCCCCGCGTACCT

Sequence 3608

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGAGTTTCACGCGCGTATGCTTTGCCC
GCTATGGCCGCAGTCAAGGAGCCTTTGGAGTTCCATGCCAAGCCGGCCTTGGCGCCCCGA
GGAGGCAGTANAAANATCCNGACGAGGAGGATGAGGATAATACTAGTGAAGCCGAGAATG
GGTTTCTCCCTGGAGGAAGTGTACCGGCTCGGAGGCACCAAGCAAGGATTACCTTATTG
CTGGCTACTTTTGGATGAAAAATGANGAAAATTNATANATTGGANGGCAAAAAAAGGGAG
CCAATTTTCGTNTGANCCTTTTAACCAAGGGGGGAATTTNGNAAGCCTTTTTTTTTTTNAA
AANTTTTTTTTTTTNGGGGNNAANTTTNNAANNCCTTTTTTTTTTTNNNNNNAANNN
AANACCCCTTTTAAAAAATAATNCCCCCAAAAAAAAAAAAAA

Sequence 3609

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNCNNGCCAGGNNCTCNCAAGANGNN
GNNNACTTCATTCAACAACCTCAAAGCGGCACTCAGACTTAACAGCGGCCATAAACGCGGC

Table 1

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GGAAACTACAGTGCCACGATGCACCGCGCCAGCCC

Sequence 3610

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTC
CATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGG
AACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCC
TTTCANGACTGGCGGCTGCTGNNGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCT
TTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCTCGGC

Sequence 3611

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTAATCAATCACAGGAGCAATTCCTGTGAACTAATAGGGAGAGNCCAGGNNGAGCT
ATCTGATTGCAATGTAATTCTGACCCTGAGTGAAGGAAAAAGGAAGGAAGACTGGGGAA
GAGNCCCANNCCTGTCTTACAGGNCCAANGAAAGTTTGGTTTGGCAAGGCCATCCNGGAG
NCNNNAATCAAAAACCAGCTGNCAGGGGAGNCCCATTTGTCTCCCAAATA

Sequence 3612

CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTGTTACCTAGTAACCCC
AGCTTCGGGATAAGGACCTGCAGCTCGGGCGCGACCCGGAAAGGGAATCCGCCCTTTTCG
CCTCCTTCGCGCCAATCGCCTGGAGTTGGCGTTTCCGCAGCCGGGACACAGCCCACCCTC
TAAGAGCCGCGGAGTTNNGGAACCGGTAGAAAGGGGCCGCGCTGCGCAGTGGCGTCCCC
CGCGTACCTGCCCCG

Sequence 3613

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGGACATCCTCATAGAGAAT
CTCAGTGGATTAAGGCAGCTGTAACCTTGTTTTGGACTGCAGTTACAGAGGCCAAGGTATA
GAAGAAAGGTAACGAGAGTGCCAGGATAGGAAAGTTCTGAGATGAAGACAACCTGGCAGC
TCAAAGTCNCAAGTTCATGCCCTGTTGCTTTCAGACCAAATTCCTCTACAGCCTGAAGC
AAGCTGGCCTTGCCACAGAGAACTGCCTTTCTCCATATGCAGCCACCTCCCTCAGGGCA
ATTCTTGCCTTGGATCCTCACTGCACCTGCTTCACCAGCATCTTGGCTCTTCATCTCCC
TACCCCCAGAGAAGCTTTCCATTTAGGAGCTCGCAACGCCCTTCCTAGGCCATGCCAGTG
TTTT

Sequence 3614

TCACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAAGGTACCCA
ATCCTGTCCTTGCCGGTCCCTCCTCGCCGGGTGGGAATCTTCGTGGATTATGAGGCCCAT
GACATTTCTTTCTACAATGTGACTGACTATGGCTCCCACATCTTCACTTTCCCCCGCTAT
CCCTTCCCTGGGCGCCCTCCTGCCCTATTTTAGTCCTTGCTACAGCATTGGAACCAACAA
CACTGCTCCTCTGGCCATCTGCTCCCTGGATGGGGAGGACTAAGAAAGCTACCACCCTAA
CCACAGAGGCTTGGAATTGGGCCTGGCCCCCATGGGGCTTGGAGGGACCCGAGCCACTGA
CAGGTATCCCCTGAACTGAACTGAGCCCAAGTATCCAAGGGATTCCCTCTGTCTGATCCT
TTGGTCTTTGCTACCAAGGCTGAAGTCTGTCAAGAACCACTTATTTTAAAAA

Sequence 3615

CCGCGGTGGCGGCCGAGTCTTCTTCATCAACGAGGAGGCCAAGAGCACCACTGGCTGCA
CCCCGTCACCGGCGAGGCGGTGGTCACCGGACACCGGCGGCAGAGCACAGATTTGCCTAC
TGGCTGGGAAGAAGCATATACTTTTGAAAGGGTGCAAGATACTTTTTTTAAACCNTTATT
GAAANGGGAAAGTGGACCTGCAAACATTCCAGTCACAGGGACAACCCATCACAGGACAAT
TGTATTTTTTTGTAGTGAATGAACAGACTGTTTGCAACCCATGACATCTGAAAAAAAAAA
AAAAAAAAAGTNCCTNNGGNCCGCTCTNAAAACCTTNNGGATTCCCCCGGGCTTGCAAGGAA
TTTCCGATTTTTAAAGCTTTTTTTTGANTCCCGGTCCNACCCCCCAAGGGG

Sequence 3616

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCGCCGCCGCCACAGCGGCCCCCTCTCTG
AAGAATGCAGCCTTCCTAGGTCCAGGGGTATTGCAGGCAACAAGGACCTTTCATACAGGG
CAGCCACACCTTGTCCCTGTACAGTGGACAGCTTAGCATGTTGACAACCTGAGAATAAAAA
TGCTTAAGTTCTGAACTGGGACAATGTAAGACACAACGACNAAACACTGGAAATGGAAAT
TCAATTACATCATTGTAGACTGGCTACTGCTCTACATGATTGTGACCAAAGTCAGAGAGC
TGAAAGAGACTTCTTTCCAGAGAACAAGATNTGAACAGGTTTTTATTACAGAAGACAATG
AATTCTCATTTGTCTAACCTAAAAGATTACAGAATCTTTCTCAACAAGTCTA

Sequence 3617

CCGGGCAGGTACCCTAAAGCTATGTAACCTTATATAAATAGTTTCAAATGAAGCAAATA
TGATAGAATAAATGAAGAAATATATAAATCTTTAAACACAGTCAAACTTTTAATGCTCC
TCTCTCAATATTTGATAGGGCAAATAAACAATAATTTTATAAGGATATGAAACATCTGAAT

Table 1

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AACATAATTAGTGAATCAAAAGAACTGACATTTATAGAACAAAGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTCTGCCTCTNGGGGGTTCTTGAGGGCTTTGATGATCAGGGC
AGAGGCAGAAGGCNCCACCTCAATCTGGGCCTGTCTGTTCTGAATGGTCAGTTTCAC

Sequence 3618

CTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTGTTTAGCCACGATGGCCGCCAGGCGG
CCCAGGAGATGGCCTCGACCATCAAGCACCAGGACCTGCACCTNCGCCATCTTCNGCAGC
CGCTTGGAAGAGCCCCGCGTACAGAATGGATTTTGGAAGAGGGAGTCACCACTGGACCTN
CAAGGGAAGCCACNTGCNGACATCTACAACCTTCGATCTCCTGACGAGTTTATTGTTGG
CCAAAACCAGGCTTTGATTGAACCAGGATGAATGCGGGTGTGGAAGTAGAATATATATA
TACATATAAAATTGGTTGGGAGCCACGTGTACTTTTCATTTTGGCTCACCGNGGATTTTC
TCATAGGAAGTTTGGTCAGAGTGAATTGAATATTGTAAGTCAGCCACTGGGACCCGAGGA
T

Sequence 3619

CCGCGGTGGCGGCCGCCGGGCAGGTACCTGTTTAGCCACGATGGCCGCCAGGCGGCCCA
GGAGATGGCCTCGACCATCAAGCACCAGGACCTGCACCTCCGCCATCTTCGGCAGCCGCT
TGGAAGAGCCCCGCGTACAGAATGGATTTTGGAAGAGGGAGTCACCACTGGACCTCCAAG
GGAAGCCACGTGCAGACATCTACAACCTTCGATCTCCTGACGAGTTTATTGTTGGCCAA
ACCAGGCTTTGATTGAACCAGGATGAATGCGGGTGTGGAAGTAGAATATATATATACAT
ATAAAATTGGTTGGGAGCCACGTGTACTTTTCATTTTGGCTCACCGTGGATTTTCTCATA
GGAAGTTTGGTCAGAGTGAATTGAATATTGTAAGTCAGCCACTGGGACCCGAGGATTTCT
GGGACCCCGCAGTTGGGAGG

Sequence 3620

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAAGAAGGACATTTCTGGTAGCTGGTC
GAGGTTGGTGACGTTGAGGATCTAAATTAAGACAGTATTATAGGAATGGGGAAGAGGAGG
CAAAGTCAAGAACAATGTGAACCTATCAACCAGCAGGACCTATTACTATAAATGAGAGGG
AGGAAGGGACCAAGGATGCTTCTTATGTAGCTGCCTTCTATTCTGGGTGACTGGTTGCA
CAGTCTCCTTAGAGAATCCAGGAACAGAGAGAATATATACCTTCCACTGGAAGAATCTCA
AACAGCGCTGCTTACTCAGGATCAGTGGCACCAGCCAACCTCAGCTTTGGGACAAACCCAG
CCAAGTGACCAGGACACTTTAGTGCAAAGAGCTGAGCACATTCCAGCAGGGAAACGAAC
CCGATGTGCGCCCATTTGTAACC

Sequence 3621

CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCGAACGCTGACA
AATGAAGTTCACTTCATTCAACAACCTCAAAGCGGCACTCAGACTTAACGCGGCCATAAAC
GCGGCGGAAACTACAGTGCCACGATGCACCGCGCCAGCCC

Sequence 3622

GCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGTTAAGCTCCATTTACCAC
TCACTTGACAGTGTCTTTAAATCTGAACCTTGCTCTTGCTCATGCGGAGCTTGCTAAGA
NAAACCAGATCATTANTGCAAGCTGTAGGTGGGTGGGTGAGTGTGTCCCTCCCACTG
CTCTCTGGTGGGTTTGGGCAGTCCCTGGCTCTAGTCTCTGCTGCAGATTCTCAGGACCAA
AATGTGGGTGATTTGTCTGGGTCCAGGCAGGAGACAGAAATCACACAAGCTCTTTTATTA
GAGATAATATAAAGAATGATTAACCAGGTGACAGTAAAGGGCAGGAAGGGAATACAAAGG
TATCCATGGAGGTAGCACCAAGGAAGCAGGCATCACACTTGAGGCTTGGA

Sequence 3623

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCGGTGGAAAA
ANTTTTATTTTTTTTTTTTTCCCCGGAGCAATTNGTAAATGCTATGCGGTAAGAGGAGTTAC
CTGTGGAAAGGTGGTTAAGAGATTAGGTAANGAAAAGGAAAGGACACCAAATAAAGTGC
TGCGGAAGAATTTTGTCCAGCTGTGAGACGACGAGTGCCTGAAGTGAAGGCGATTGAGA
GGGGCTGAGGGAATTGTCCTCTGTGGAAGGGACTTTCTTTTGGCCCTAGGCCCTTCTG
CCCCTGTCGTCAGCAGAGAGATGGAAAACCTTGATGACTAGCTCCACCCTACCGCCCTTT
TTGCANATGAAGACGGTTCCAAGGAGAGTAATGATCTGGCTACCAC

Sequence 3624

CCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTG
GAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATC
CTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGT
GGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCGGC
TCAACCAGTCAGTCCCCGCGTACCT

Sequence 3625

Table 1

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CCGCGGTGGCGGCCGAGGTACTTAAGCTCATCGGTGTGAAAACAAATCTGATGAGGTAT
CGAAGGAGCCGTCTCCACCTTTCTTTGAAGAATTTACAGCCTCATCCCACTGTTTGCTC
GTTATGTAGACAGGATAGTTGTTCAACAGCTGCTTGCTTCCCTCTGTGCGCTGGTCAAGC
TGGCTGTGGTATCAGGAGTTGGTTGTGGTGCTGCAGAACCATCTTCAAGTAATCTAAAAC
GGTCTGGCAGGGCACTGGGATGCTCTCTAATTTCTTCTGAGCTCTTCATTTTCTTGTTG
CAGTGAAATAACCTCCTGCTCCAGCTCTTGGCATCGAGGACAATAGCCTTCCTCGTCCTC
CTCCTCCTCTTCTTCTGGCAGTGTAGATGAAGATGGGTGGCCATGGGGAATTCGGACCGT
TGCTGGGGGAAAGTCCAG

Sequence 3626

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTCTTCCGCGCCG
ACTGTCCTGAGCTGACTGCTTGTTACGGATTTTCCTCCTGACCTTCTTGAGGACCCTCTC
CTCTGCCTTGGTGAGGGGCAGGTGAGAGGGCAGGGAAACCCCTTCCTGCCCCAGCAGACG
CTTCTCCTCATCGGTCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAA
GATGCAATAGGAGTGAGGAGGGGGTCATCCCATTTGCAGCACCCAGGCTACTCCCCCAC
ATGCCTTCTGGAGAGTGTTTCCTCACTGGGAGACAACCTTAATCTANAGGTGGGGTGAGG
GGCAGAGACTTTAAT

Sequence 3627

CCGCGGTGGCGGCCGAGGTACCATGTTTACAGGAACCAAGGACGATATTGCTCTACTGTTG
GAAACAGAGTAATCAAATTTTCTGTGCTAGCCTTAATTCCTGCCCTCTTTAAGAGGAGCT
TAATAAAATGTAAATATGCAGAATGTTTACTTTTGGATTGTCCCATGGTGTCCCTGGAAT
GCTCCGAGTGACACAAGCTTACCGCAAGGCCGACCACACGTTCTCGGGAGTTCTTGGACAG
ACCGTTCTTACACAACGACCACGCTCAGGTGTAACCTCACCTGGGTTCAGGAGACCGTGT
TGGGTGCCAAAGATGTAGGGGAACCTGCCTGATACACCACCCGAGGCTCTCCCCTTCCC
GGTGGAGACGAGGGAATGAGAAAAGAAATAAAGACAAAGACACAAAGTTTAAGAGTTAAC
AAAA

Sequence 3628

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGCCGGNCAGGTNCGCGGGACCC
ATAGTAGGCTTAAGAGCAGCCACCATTTAAGAAAGGCTTCAAGCTCAACACCCACTACCT
AAAAATCCCAACATATACTGAGCCCTTCAACCCCATTTGCTCACTAICCTGTCTAT
CTTTGTATTCTTGCTGCAGTTCCCTTTGGGTTCCATGTTTTCCTTGTTCCCTTCCATGCC
TAGCTGGATTGTAGAGTTAAGTTTATGAATATGAAATAAAATCTAAATAGGCCGGGCGCG
GTGGCTCACGCTGTAAATCCCAGCACTTTGGGAGGCCGACGCAGGCGGATCACGAGGTCA
GGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAAAAAAAAAAA
AAAAAAAAAAAAAGGTTCCCGCGGGGC

Sequence 3629

CGCGGGTGGGCGGGCCGAGGGTACAGAAGCANANCAGNAGTGTGGTCCCTGAATCTGTCT
CACCCCCATGATCTTTACACACAGAGACCTTCCCAGGAGCTGTGACTTGAAC TTCACAAT
CTGCAGGGTCCACCCAGGAGCCGTGTCTCTCACAGGCAATTGGATCCCCCTCCTCTCTC
AACCTGTGTGGGAAGATTTTGTGAGCAGCCTCGGCGCACCGGATGTCTGCTTTTGCCATCC
CCAGTGGGCGCTGGGGCCGCGTCTGGAGAGACGGTGGCTCTCCCCGCGTACTTTTTTTTT
TTTTTTTTTTTGAAGTGAATGCGAGGATTTAATACCAATGCGGGCACAAGAATTTTNTTAGA
AAAGGTCAGTGGGGAGGGGATCATGGGACACCTTTGGTTTCAACAAAC

Sequence 3630

AGGTACAATAAAGATTTTAGAATTCATCAATTTGCACACTTATGATAGATGCACTTTCCT
GTATGTATATTTCAATAAAATCTTTTAAAAAGTAAATGACAAAAAGACACTATTAACAA
AAATGACATATTATATTAAGTGTATACTAAGGAAATATAAAATGAGTTCTATAACAG
GGGCTCTGCAGGTATGTGGTTCATGCCAAGGACCATATGTGCTCAAGATTCTCATGACAT
TTTGGAAGGAGGTTGGGCTTTCTTTATCTTTCTTTCTTNTCTCCCTTCCCTTCCCCTCC
CTTCCCTTCCCTATTTTTTAAACCTAGGNNTTGGTATTTTCTTGGGGTGATTGGTGACTTT
GGAAAATTGGN

Sequence 3631

TTTTTNNNTTTTTTTTTNTTTATTTTAGGNNTGNGCTCTACTATCNTATAGGGCGAATTGG
AGCTCCCACCGCGGTGGGCGGGCCGAGGTNCAGATCTGGGGAAC TAAATATNAAAAATGA
GTGTGGCTGGATATATGGAGAATGTTGGGCCCAGAAGGAACCGTANTAGATCATGAATAT
TACAACAGCTTTNGTTTTGAGTGGGTTACGAACATATTGAANATGAATTTGGTNTATTGA
AACNCCACCAGCTNTTATTNNCNACNAAGNNGGCCACGAAAATCCCTNGACCCCTCTTG
CCCCCGTNGGNTTAATTCCTCNCCCAGGCATNTGNGNCTTGCNCCTCCATAGTNCA

Table 1

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TTCCACCAAGATNATTNTCNCCATATTTNTNGTTTATNGNTNTGNCAATTGGTTCTTTNG
NTGGAAAAGCCCCCAATNCAAANGNAATATNTTTCATCCGTTCCATNGATTTTNTCNCCT
GCATTCCATATAGGGNTNATANTGGCCTTCCACCTCTTTGGTNGNAACANTTTCCATTNT
ACCNAAAAANTANCTTNGNTAAAATTCCCCGCGGNTNTNCAAAAAATTAAAAATTANT
TCTCCAACNNANANCCAAGGGGAAAACCTTGGNNNTATNTTCCCCTTGGGCCCCCCCCAAT
TCCCCCTTTTTTNANAGGGGGA

Sequence 3632

GGCCACTGTAACCAAGAAAGTGGCTAAGAGCCCCAAAGAAGGCCAAGGTTGCNGAAGCCCA
AGAAAGCTGCCAAAAGTGCTGCTAAGGCTGTGAAGCCCAAGGCCGCTAAGCCCAAGGTTG
TCAAGCCTAAAAAGGCGGCTCCCAANAAGGAAATANGCGAAACGCCTACTTCTAAAAACC
CCAAAAGGGCTTCTTTTTTTCAGNAGCCACNCACCTGATTCTCAAATAAAAAAGGAGGCTG
GGATANATTTTTCTTGTNCCNAAGGAATANCATATGAGATAAATTACNATAANATTNAAG
TTACCCTTNNGGGCCCCGTTTCTTATGAAAACCTAAGGTTGGGTATTCCCCCTCGGGGT
NNCTTGGCNAAGNGGAAAATTTTTCCGGGATTTATTCTAAAAGNCCTTTTANTTTCCGGA
ATTAACCNCGGGTGTGNGAAACNCCNTCCNGGAAGGGGGGGGGGGGG

Sequence 3633

AGGTACGCGGGGACACAGGCCAGGTGTGTAGGCCACAGCAGCCGAGTCCTGAAAGGCT
GCAACACCCAGACCTCCAGGAGAGACCCGGCCAGGATGCCTCGCCTGTTCTTGTTCAC
CTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAG
GGCGATGTTATTAAATTAT

Sequence 3634

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTT
CCATTTGGCCGCGACTGCTCTGGAATTTGGTTTCAAGTAGTAAACAGAATTCTAGCAGGTG
GAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGC
CTTTCAGGACTGCGGNTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTT
TAGGCTGCCCCCGCGTACCT

Sequence 3635

ACTATATGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACACAGGC
CCAGGTGTGTAGGCCACAGCAGCCGAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGG
AGAGACCCGGCCAGGATGCCTCGCCTGTTCTTGTTCACCTGCTAGAATTCTGTTTACT
ACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGGCGATGTTATTAAATTATG
CGGC

Sequence 3636

CGAGGTACTTTTTGGCAGAAAGTTGACCCAAGAGTTTACTGAAGTCGCTGGTGAAACTC
CATCAGCATGCCTGGCATTCTTCTGGATACATCATAATAGGGTGTGTCATTTTCAGCTAATG
CATTTTGCAACATGTCAATGTCTTCTTTAATGAACTTGATCAGGTTTATTTGCTCCCT
CAAAGGGTATTCTGTACCCAACCTGAGAGCAGAAGGTGCCCTGTAAAGAGGCCATGCCG
AAGTCTGTGAGAAGAGCACACTGAGAAGAGTCAGGAGCACAAGGAGCTGGGCCTTATTTT
TGGTGTCCATTTCTGTGCCTCTCGCCAGTCGTGCTCCCCCGGAGCTGACTGTTCTGGTT
TGTTTTGAAGCTGTCTTAGGTGCTGAAGTCCTGGGAGTAAGAGAAAGGCTCCACCAGTTC
TCTGCCCTTAGCAATGGCTAAGGGTTGGCTGTTACTGCCTGCTGGTGCTTCTCACTCTAC
CCTCCCCGCGTACCTGCCCGGGCGGCCGCTCTAGAACTA

Sequence 3637

AGGTACGCGGGGTCTCACTCACCCACCCTCCCCAATTCCAGCCCTTTGCCCTCTCGGT
CAGGGTTGGCCAGGCCAGTCACAGGGGCAGTGTACCCCTGGAAAATACAGTGCCCTGCC
TTCTTAGGGGCATCAAGCCCTGAACGGTTGAGAGCGTGGAGCCCTCCAGGCCTTTGCTCT
CCCCTCTAGGCACACGCGCACTTCCACCTCTGCCCCATCCCAACTGCACCAGCACTGCCT
CCCCCAGGGATCCTCTCACATCCCACACTGGTCTCTGCACCACCCCTNTGGTTTACACCG
CACCTGCACTCACCCACAGCAGCTCCATCCACTGGGAAAAGTGGGGTTTGCATCACTCC
ACTGCACAAGTGTTAGTGGGACCTGGGGGCAAGTCCCTTGACTTCTCTGAGCCTCAGTTT
CCTTATGTGAAAGTTGCTGGAACCAAAATGGAGTCAC

Sequence 3638

CCGGGCATGGCACCATGTTTCAAGAAACCAAGGACGATATTGCTCTACTGTTGGAACAGA
GTAATCAAATTTTCTGTGCTAGCCTTAATTCCTGCCCTCTTTAAGAGGAGCTTAATAAAT
GTAAATATGCAGAATGTTTACTTTTGGATTGTCCCATGGTGTCCCTGGAATGCTCCGAGT
GCACAAGCTTACCGCAAGGCCGACCACACGTTCTCGGGAGTTCCTGGACAGACCGTTCTT
CACAACGACCACGCTCAGGTGTAACCTTACCTGGGTTCAGGAGACCGTGTGGGTGCCA

Table 1

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AAGATGTAGGGGAACCTGCCTGATACACCACCCGCAGGCTCTCCCCTTCCCGGTGGAGAC
GAGGGAATGAGAAAAGAAATAAAGACAAAGACACAAAGTTTAAGAGTTAACAAAAGTGGG
TCC

Sequence 3639

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTT
CCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTG
GAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGC
CTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTT
TAGGCTGCTTTCCCTACCCGGCTCAACCACCCCGCGTACCT

Sequence 3640

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTAAAGAATC
AGTGACCTTTTACCTTAACATCAAAATGTAGTTTAACCAGTTAATGTATTTTTCAGTTTT
CTTTCCTTATGTCATCTGTGAACATCTTGAGCTGTGAGCTATTAAGTGCATGTTTCCCTC
AAGGCCCTNTGGTCCATTCTGGACTAATGTTGAAAGATGGGATGGATTGGCATGGAAGT
TTGGGGTGATCAGACCCAACACCGGGCTGTGGGGGCTAAGAAGTCCAGTGGAGTCAAAGG
AATGAGAAAAGACAAGTTAAGAATGCATAAGGTGGGTCCAGGGGGCCAACGCTAGTATGG
AGGCTGCAATAGACCTGAGCTCTGGAAGCCACACTATTAGTGATCAAACAAAGCACCAG
GTGGTGAAGGGATGTGGG

Sequence 3641

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGATACCAGCATCACCACAAACATGAATA
ATGAATTGAGCTGTGACATTACTAGGCAATAGGAATGTTTCAGCTCCATTATAATCTTGT
GGGATCACCGTTGTATATGCAGTCCTGTGTTGACTGAAACGTTATGTGACTGCAGTTGGG
TAATGGTTTCTTAGCCTTATGTCAGCTCTATGTATCCAATTAGTTCAGTCAGTTGCCTCC
CCTCTTCAGTGGAAGATTTTGTTTTGTAGTTTCAGTTTAGGAAGGAAGATTTCTTTTCAGGA
GGCCAGGTGTGGTGGCTCACACCTGTAATCAATCACAGCACTTTGGGAGGCTGAGGCAGG
AAGACTGCTTGAGCCCAAGGAGTTTGAGATCAGCCTGGGCAACATAGCAAGATCCCATTTC
TACCAAANNAANAACAAANAANNAAGTACCT

Sequence 3642

CGACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTCAGAGTGAGG
ATTTTCTGCAACCTACGTTTGTCCCTCCAGCATCTGCTCTGGCTCCATGGCGGACCCTGC
AAGTCACAGTCCCCGGATACCAGTCCGCGCCCAAGCCGTTCTGTTCTTAAGAGCCCTGCAC
CGCGCCACCAGTCCCAGCACAAACAGCTCCGGCCCGCCCGGGCAGGTACGCGGGCACCCC
CAAGTAGTGCAACAACCGGGGCTGCTGCTTTGACTCCAGGATCCCTGGAGTGCTTGGTG
TTTCAAGCCCCTGCAGGAAGCAGAATGCACCTTCTGAGGCACCTCCAGCTGCCCC

Sequence 3643

AGGGGAACAGTGTGAAANCCTGGTTAAAGGGTTTGGGTGGAGACCTTTGTGAGAGTAGAA
TANGATTGGGATTATAGGTNTCAAAGCCAGTGAGCATCTACCCCTCCGTTCCCTTCTCT
ACGCCACCCTGTCCCTCTCCGAACCCTGCCTGGAGACACTGGATCATCATTTCTGGGACC
ATGTCATTCTACTTTTNTCTTNTGTTCTTCCAGTCTGCCATGCACGGACTGATCATGGGC
GGCCTGGAAGTGATCTCAATCANAGACAACACCCCAATCCCACACAACGGCTGCCGCCCC
AGGAAGGCTCGGANGCTGTGATGGGAAGGAGGCC

Sequence 3644

CCGGGCAGGTACGATTTATATTCAGCTGTATGCTGGGCAGGTCCAACCTTGGCATTTCTTG
GCTGTATCTCTGAAGGAAAGTCATCTTAATCTCTATGAGCCTCCATTTCCCTCAGCTGTAA
AATGGGAAGATCTTCCCTCACACTGCTGTGAGGAAGCGGATTTTCTGACGCATATGAAGAG
TGAGAACTGTCTACATCTAAGTCTTCTTTGAGAACAATAACCAGCTGAGCGGCTATTTACA
TTCCAGCTTCTTTTGAAGAATCTCTGAAGATGATTAAGTCATTGTGAGCTGGCCCAGAACC
ATATCCTGCTCCACAAGCCTCGTCCTTGGCAAGAAGTTGCACCTGCC

Sequence 3645

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTTACT
GAGAAATTCATCAGCTTTTTCCTACCAAAGGCAGACATCTAACCCTTCCGAACCTCAGG
GGAGATCAACATAGACAGCAGTGGTGAACAGTTGGATCTGGAGAAAGATGTGTCATGGC
AATGCTGAAGAAGGAGGGATCAGGGGATNAAGAAGACCAACCGTTAGGAAGTNTTGNACT
GCAGGTATTAGTGAGTATTTTGAACACTGTGATGTCTCAGGCATGAAGGAAGACCTGTG

Sequence 3646

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTTTCTAACAAGAAGC
CTTCAGGGGAAATAATGGATCCTAGTTATGTCAAAGAAAACAATGAGACAAAATGGCAAC

Table 1

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TTCACAGTCTTCAAGTAAATAAGAATCCCTGATCCCGCGTACGCGGGGCTCTTACCGCCA
TCTTGGCTCCTTGTGGGAGGGCCCTGCTGGGAACGGGACTTNTAAAAGGAACTATGTCT
GGAAGGCTGTGGTCCAAGGCCATTTTGTGCTGGCTATAAGCGGGGTCTCCGGAACCAAAG
GGAGCGGCACAGCTCTTNTTAAAATTGAAG

Sequence 3647

CCGCGGTGGCGGCCGAGGTACTTTTTGGCAGAAAGTTGACCCAAGAGTTTACTGAAGTCA
CTGGTGAAACTCCATCAGCATGCCTGGCATTCTGGATACATCATAATAGGGTGTGTCA
TTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAAATGAACTTGATCAGGT
TCATTTGCTCCCTCAAAGGGTATTCTTGTACCCAACTGAGAGCAGAAGGTGCCCTGTA
AAGAGGCCATGCCCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAGTCAGGAGCACAAGGA
GCTGGGCCCTTTATTTCTTGGTGTCCANTTTTNTCTGTTGCCCTCTCGCCCAGTTCGTGCTC
CCCCGGAAGCTTGACTGTTTCTGGTTTTG

Sequence 3648

CCGGGCAGGTACCCACGGCGAGGACGAGGATGAGAGCTTGTGCCGAGATGTGCCCCAGAG
CCTCCCCCACTTCTTGTGGCCCACTGTGGAGACCCGGCCTCCTGGATCTACTCAGACCA
AAAATGTGATGGCACTAACAACCTGCGGGGACTGTTTCAGATGAAACTGAGCCCAGTAACTG
TGTGCCCACTTGCCTGGGTGGTGGCCGCTGTC

Sequence 3649

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGG
CCTGTGCGCCTGTCCCGGGCTTTAGGCTGCTTTCCTACCCGGCTCCCCGCGTACCTGCC
CG

Sequence 3650

CCGGGCAGGTACGTTGAAATATTAGGGGCAGCTTCCCCCAATATCTGGCGCCCAACGTGG
TTTTCTTTTTCCTAAGTGCATGTGGGAACCCGATTCCCTTTGGTAGGTGCGGAGAAATGT
TCATCGGTCCAGTCCACAGAAATGCTTGTTCGGCTCCCCGACGATTGGTGAGTTGTCTGT
GTATTGTCCGGGGTAACTATGGGTACGCAGAGTCTAAACATTATGCTTATCTCTGCTAT
ATTAAATTCCTGTTAAAATGGGGGAGTTCGGGTTCCTATGGAAAATATGGTCACCTATT
CAGGGCAGTGGAAGAACACTGTCCTTGGTTTCCTGAAAAGGGAACGTTAGATGTGG

Sequence 3651

CAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTCTCTCGCTCG
GAATACAGCCACTGAAGGAGGTAAAAGATATCTACAAGTAGAACTTTGATATTATTACTT
CTTCTACTGAACTTAAACCAATTACTGTTTGCTTTGGTGTCTGTTGTGATTTCTCTTATT
TAGTTGGATTTTGTAGTTACTTTAAAAGTTAACGAAATTTACATTTTCATCAAGTCCAGA
GGCCAGAGACACCCAAATATGCACAGACAGGAATCAGCTGCAATTGTCCAAGCCAGAGCT
GATTAGGCCTCAACTGGAATAGTCCCACCATGTAATAAATCTTCCTGAGTATTGTGTATA
AGGTCAAATATTTCCAGCT

Sequence 3652

GCNAATTGGAGCCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGGCAGAAAGTTGACCCAA
GAGTTTACTGAAGTCACTGGTGAAACTCCATCAGCATGCCTGGCATTCTGGATACATC
ATAATAGGGTGTGTCAATTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAA
TGAAACTTGATCAGGTTTCAATTTGCTCCCTCAAAGGGTATTCTGTACCCCAACCTGAGAGC
AGAAGGTGCCCTGTAAAGAGGCCATGCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAGT
CAGGAGCACAAGGAGCTGGGCCTTATTTCTGGTGTCCATTTCTGTGCCTCTCGCCCAGTC
GTGCTCCCCCGGAGCTGACTGTTCT

Sequence 3653

AGGTACTCTGAAGGTGGATAGCAATGGTGTGATCACAGTAAAGCCTGACTTCACGGGCCT
CAAAGGACCCTACAGGATTGAGACGGAGGGGAGAAGCAGGAGCTGTGGAATATACGAT
CGACAATGTTTCCCCCACGCACAGCCGGAGGAGGAGCGGGAACGGCGAGTGTTCAA
GGATCTTTATGGCCGGCACAAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGAT
GACTGTCCCAGGTGCCCCCGGCTCTTTGTAAATGGAGAGGTCGTTTCAGCCCAAGGCTA
TGAGTATGACAATCTCTACGTCCACTTCTTTGTAGAATTGCCAACTGCTCACTGGT

Sequence 3654

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGG

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CCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCTCCCCGCGTACCT

Sequence 3655

CGCCCCGGGCAGGTACGCGGGGAGGGTAGAGTGAGAAGCACCAGCAGGCAGTAACAGCCAA
CCCTTAGCCATTGCTAAGGGCAGAGAAGTGGTGGAGCCTTCTCTTACTCCCAGGACTTC
AGCACCTAAGACAGCTCCAAAACAAACCAGAACAGTCAGCTCCGGGGGAGCACGACTGGG
CGAGAGGCACAGAAATGGACACCAGAAATAAGGCCAGCTCCTTGTGCTCCTGACTCTTC
TCAGTGTGCTCTTCTCACAGACTTCGGCATGGCCTCTTTACAGGGCACCTTCTGCTCTCA
GGTTGGGTGACAGAATACCCTTTGAGGGAGCAAATGAACCTGATCAAGTTTCATTAAAAG
AAGACATTGACATGTTGGCAAATGCATTAGCTGAAAATGACACACCCTATTATGATGTA
TCCAGAAAATGCCAGGCATGCTGATGGAGTTTCACCAAGTGACTTCAGTAAACTCTTGGG
TCAACTTTCTGCCAAAAGTACCCTTCGGCCGNTCTANAACNTN

Sequence 3656

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGGCAGAAAGTTGACCCAA
GAGTTTACTGAAGTCACTGGTGAAAACCTCCATCAGCATGCCTGGCATTCTTGATACATC
ATAATAGGGTGTGTCATTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAA
TGAAACTTGATCAGGTTTCATTTGCTCCCTCAAAGGGTATTCTGTACCCCAACCTGAGAGC
AGAAGGTGCCCTGTAAAGAGGCCATGCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAGT
CAGGAGCACAAAGGAGCTGGGCCTTATTTCTGGTGTCCATTTCTGTGCCTCTCGCCCAGTC
GTGCTCCCCCGGAGCTGACTGTTCTGGTTTGTGTTTGGAGCTGTCTTANGTGCTGAAGTCC
TGGGAGTAAGAGAAAGGCTCCACCAGTTCTCTGCCCT

Sequence 3657

CCGCGGTGGCGGCCGCTTTGGTGTGTCTCCACAGCGGAGGCCGTGCGAGAACCCAGCTC
CCACAGCTACGATGTTCTTAAGCGCACCACAGAGTTCAACAGTGTCTGCATCATCAACCA
CGGTAATTCGAAAATTTGGAGTCTGCAGAAGTTCTTTGAAGAGAAGGCCGTTCTCCATTA
CTTTGCTGCCGATGGTGGTCTCACAGAACTTCTCTGCAGCCACCTCATTGGCAATGTTGG
CTCCCATCAGCACACTGATGTCAATAACCATCTTCTCACGGATGATGTCAGAAATGAGCT
TCAGCCCCCTCGGGGCCCTCGTCTATGCCCTTGATGAGGGTGATTCCCAGCGCTTTCTTGG
GCACTCTCCAGTGATCTCATCACAGATTCTGTGAATGAAGTGGTGGGGAATGACAAACA
CCAGCAGGTCTGCATCCTGCACAAGCCTCGCTAAGATTTGACATGGCAACCACATTTTCT
GGCAGCTTGTGTCAGGAAGATATTTTACATTTTCATGGGCCATT

Sequence 3658

TAGGCGAATGGACTCCCGCGGTGGCGGCCGAGGTACTTTTTGGCAGAAAGNTGACCCAAGA
GTTTACTGAAGTCACTGGTGAAAACCTCCATCAGCATGCCTGGCATTCTTGATACATCAT
AATAGGGTGTGTCATTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAAATG
AACTTGATCAGGTTTCATTTGCTCCCTCAAAGGGTATTCTGTACCCCAACCTGAGAGCAG
AAGGTGCCCCGTAAAGAGGCCATGCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAAGTC
AGGAGCACAAAGGAGCTGGGCCTTATTTCTGGTGTCCATTTCTGTGCCTCTCGCCCAGTCG
TGCTCCCCCGGAGCTGACTGTTCTGGTTTGTGTTTGGAGCTGTCTTTATGTGCTAAAANTC
CTTGGGANTAAGAAGAANNGCCCCAACCAAGTTCTNTTGCCCTTTAAN

Sequence 3659

CGAGGTACATGAAGTTCACATTGTCAAAGATTATCACTCCTTCATGGGGCCAGGCTGGTG
GTGGGCGTTTCTGATATTCCCAAGGTGCTTCTTTTTCAAGGTCTGTGTATTCAATGACCC
TTTCTACTGAGATCATCATATTCTCAACTTCAGCACTTTGTGCAACACACCACTGAAACA
TCCCCATGAGCGTGAGGGCATAGGACAGTGCCAAACCAACCTGCCCGGCATCCAGAGTTT
TTGCCAGAATCAGGGACCCAAAGGCAACGATGATGACAAACATGGCACAGATGGCATCCA
GACGGACGGCGAACCAGCGGGACGTTGTCAAAAACAAGAACCAAGCCTCTGAATGTAAAT
CCTGGTGTGCATCAAACAGTTCCTGACACCTCTCTTCTGCTTTGTATGCCCGGATGGTCC
AGAGCCCCCTGGAGAGAAGATGACAAGTGGGAAAACACTGGACTCCGAGTTGTAGATTCCA
GGCGCTTTCACATCTCTTTGACGTTTCCAAAAAATATCGCCCGAAGAAAAATGAAAATGAT
TCCAAGGGGAACCAAGGGTATTGCGATCCAAGGAATCACNGGCCAGCCCAGAGACCACA
CCAACCACTTGTAGCAATGTCTGGATGAAATCT

Sequence 3660

TAATACGACTCACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACGC
GGGGGCACTCGGCCTGAGAACTCGGCAAGCGCGCAGTGTGCACTCCCCGGTCTATGCCA
GGCGCATCTCAGCTAATCCAAAAGTAAATGAGAACTTAGAAAAGGATTGCCAATTCCAA
ATCAACATATTTAGAGAAAATTTGAAAAGGAGAAGCTTACTACAGCTTTATTTGAGGACT
TTTTAAAGAACGCTGGGTCTATCTGTGAGCTGCAAATCTTGGAGCAAAAACCAGAGACA

Table 1

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TTGCCAGAGCAAACAAGAACAGAAATACAAATGGAGAACTGGTCAAAAGACATAACCCAC
AGTTATCTTGAACAAGAACTACGGGGATAAATAAAAGTACCTGCCCCG

Sequence 3661

CCGGGCAGGTACGCGGGGATGCTGACCACTCACCATCATCTCAAGGCAGCAGTGAGGCC
CAGCGTCTCAGCCACCCCCCAGGTCAGAGGTTCTGTTCATGCCCTCTGTGATTAGAGCAC
ATGCCATCATTACCTTAGGTAAGCTGTGCTTACAGCACGAGGATCTGGCAAAGAAGAGCA
TCCCAGCCCTGGTGCGAGAGCTCGAGGTGTGTGAGGACGTGGCTGTCCGCAACAACGTCA
TCATTGTAATGTGCGATCTCTGCATTTCGCTACACCATCATGGTGGACAAGTATATTCCCA
ACATCTCCATGTGTCTGAAGGATTCCGACCCATTTCATCCGGAAGCAGACACTCATCTTGC
TTACCAATCTCTTGCAGGAGGAATTTGTGAAATGGAAGGGCTCCCTGTTCTTCCGATTG
TCAGCACTCTGATCGATTACACCCAGACATTGCCAGCTTCGGGGAAGTTTTGCCTGGCT
CACCTGTTACTGAAGAAGAACCCTGTCATGTTCTT

Sequence 3662

ACTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGGAAAGCA
GCCTAAAGCCCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCT
GAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATGCCTCGCCTGTTCT
TGTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCA
AATGGAAGGACGATGTTATTAAATTAT

Sequence 3663

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAACTGACACCTCAGGGACAA
AGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAA
CCATGCTGGGTAAATAAATTGCCTCATTCGTAAGAAAAAAAAAAAAAAAAANGAAAA
AAAAGTNCTTTTTTTTTTTTTTTTTTTTTTTTTTTNNGGAAATCTTGCACAAATGGCATT
TATTAAAGAAAATNTAATTTACAAAGCTTTGTAAATTTTAAGAAAAACATTCATAGATCA
TAAACAAAAATTTCAATATGCAATATTCAAATTTACAAGAAAATAAGCNCAAATTTTAG
ACAGGGCAGTTATTGCTGCACTCCTTTAATTCCTTATCCAGAG

Sequence 3664

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACATTTTAG
AAAGTGAAATGCTGTGGACATTTAAGGTGGAGCCACTGTGAGAGTCTAGGGGGATAGATG
GTAGTCGTCTCGGAATGAAACGAATACACCCCTCTCAGAGCCCTTTCCAAGGATCCCCTC
CTTCTTTCAGCTCCTTCCCTCCACCTCAATACACACTCCTGTCCCAGGAACCTAACCTCA
TCTAGAAATACCAGGGCCAGCATGCCTTACACCTAGAGGTTTGGTTGGCTTCAGAGAAAC
TTCTGGAGGCTAAAAGCAGCCAAGAAGAATCAGCCACTACATGCTGGGCCTGGATGAACA
GAAGCAGTGAGCTGTGATGGGGGCTGGGGCTGGGGCCCAGGAGGAGCAGGCAGGGAGAGT
TTGTATGCACCGTGATTAAATATTATAACAAAAATATTCGATCATGTGTTAGGCACTTTA
CAGTTCCCAAAGCACTTTCCCATCCATG

Sequence 3665

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGCCG
TTACTCCGAGGAGATACCAAGTCGGTAGAGGAGAAGTCGAGGTTAGAGGGAAGTGGGAGGC
ACTTTGCTGTCTGCAATCGAAGTTGAGAGGCCAGTATTTAGGCGACAGTGAATTTATTA
CTCTGAAGAGGGTTCTGCACATATTTCCAAATTATATTGGTGGTCATCAGAAGTAGGTGA
TAGGAAGAAATACTTCTCAAGGGTGCAAAAATGCAGAGTAATAAACTTTTAACTTGGAG
AAGCAAAACCATACTCCAAGAAAGCATCATCAACATCACCACCAGCAGCAGCACCACCAG

Table 1

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CAGCAACAGCAGCAGCCGCCACCACCGCCAATACCTGCAAAATGGGCAACAGGCCAGCAG
CCAAAATGAAGGCTTGACTTATTGACCTGAAGAATTTTAGAAAACCAGGAGAGAAGACCT
T

Sequence 3666

CCGCGGTGGCGGCCCGCCGGGCAGGTACTAGTCAGTATGCTGTAGTATTAATCAGTAGGT
CAAGTTCAGTGAAGTAAAGGAGAATTGAATTCCTGAAGTTCACATTTAGGCCAAAATTTG
GCGTTTTAGGAGGTGAGTATAAGACATGATCTTTATAGAAAACGCTGATGATAAAAACAG
CGCTCTCTGTTAGGTGCCTTTATGCTTGACTCCATTGTCATCTTTTCTTAAGAACTAAG
CTCAGGACTGGGTGCAATGGCTCATGTCTGTAATCCCAGCACTTTGGGAGGCTGAGGCTA
TAGGATCAGTTGAGCTCAGGAGTTCAAGATCAGCCTGGGCAACATAGCTAGGCCTCGTCT
TCTACTAAAAACGAACCAACNAAAAACAAAAAAACCCCCAAAAAAACCC

Sequence 3667

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTTTTATTTTACAGA
TGAAGAACTGTGGATTTTGTCTTAAGAAAATTTCCAGGCTCACAGAACTAAGCCTAATT
TCTTTTTATTTTTTAGCAAATACAGTTTTTATAAGAATTTGAATTCATGAAAATAAATG
GATTACTCCTAAATCTCTGATGCCTCAGTGAACACTTTTTCCTTATTAACAAAATTCTCA
CTTTTGGCTTTGGATTGGCTTTGCAGGAGTGCAGATTGATCATAGCTTTTTTTCATGTCCT
AAGAGTTGTCAGAGTTTTCTCTTGTAGCATTTTTTTCTTTACTTTTTTTTTTACTATCT
TTAAATATATGACTGTAAGAGTATGATAAATATGCTGTTTTCTAATCTCTGCTGGTGGCA
CATAAACTAATATATTTTGAGGTAATTTTGAAATGATATTAATAATGGCATTAGATTTTC
TTTGGATTTTTTGAAAAAAT

Sequence 3668

TAGGGCGAATTGGTNCTCCCCGCGGTGGCGGCCCGCCGGGCAAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTAGAGATGGGGTCTTGCTAGCTTGCTCGGGCTGAACTAAAGA
TATCCTCCTGCCTCAGCCTCCAGGTAGTTGGAACATAGTAGGAGTATNTACCCTGCCC
TGCTAGAACTTCAAGTTTTGATGGGCAAATCCACCCCAGAGGACAGGACAAATGCCAGTA
TTNTGGTTAATAGCCCCANATGAGCCAGCTTCCCACCCATNTNCCGTAAGGGGGCAGACA
CATAAGGGAAGCCACCTTGGACCTTTNAGGTCAACCCATNTACCAGGGGGNATACTACCA
GGAGNGGAGGCTTTGGGATTACATGGACAATGGGAAAACAAATGGGCCCAGGCTTGGAGT
CCCANCTTAAAATTCCCTTGGATCCTTACCAAAAATT

Sequence 3669

AATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCNGGNAC
CTCANGCCCTGAGGTTCCCTCTNTTCTGGGGAAAAGCCACACGACTGATGGGCCACATAA
GCTCTGGTCTTTTTCTGCCNCGANTNCCNGGACCCTNTGCTAANCCGGTTCCTATTGNAC
AGATGANTGCATAATACCACANGAATTCAAATGGGG

Sequence 3670

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCACACCCAG
CCAGTCAATAACTGAGAAATCAAATAAAATAAATTTCAAAGAATTACATAAATACAG
GGCCTTTTGAGATTTTTGGCAATTGTAAACAAAACGAATGGTTTTTACAATTCAGTGTA
ATTCTACGAATATTTATTTGGCACCCATGTTAGGCACTGAGGCTACACAGCAGTGAAATA
GGCCTAGTTGTTCTCAACTAGAGAACATAGTTGGTTAATGTAGCTGCACTGAATTGTAGC
TGTTTAGAAGATAATATACCCTGAGGCTTTTTTAAAGTATACTATTACTATAAGGAAGTAA
AATTATTTTATACTTATAAATTTTGTTTTGGATTATTCAACTGAATTTGGGAGTGTTTCAG
AATTTTATGGCGGTTGAGACAAGGAAGAGGTATAATGCTATTTTTTTTTTCTTTTCTTTTT
TTTTG

Sequence 3671

AGGTACAAGTCATAAACACAGTGTGCAGCAGTGACGATCCACAGGGGCGTGATGACAGAG
CCCCCGCACAGGTGGTAGCCCTGGAAGTGAAGGCTGGCCTGCCAGGGGCCACTGCGAGAGC
AAGGACATGTTTCCACCCACGATGCGTGAGCTGTAGCCCTTCTATGACCACAGGCTGTG
CACTGCAAGGTAACCACGTGGCCAGAGGCACATCCCTCCCTCACATATACTGAGTGGTGT
AATGCAGTCACCTTGTCATCTGGCAAGAGGTGATCGATGGACACAACTCCTCCCGGAAC
TGCCCTCCAGCGAGCTCACTCTGAGGTTATCTGAACTCACATAGCTTGGGAAACCCAGC
TGGGCACATGCAACATTTGCCGTAGTGACCCT

Sequence 3672

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACACTAGTATTT
AACCTAGACGTGAGGAAGGAGTAGGAAATTTTCTGGTGAATACAGAAGAGCAAAGAACAG
CAGGTCAGCAGGAATGACTAATGTTTTTCTATGCATGTTTAATGGAATATTCGTGTAGGA

Table 1

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TATTTTGAGTAGGTAATTGGATAATCAGCATTTGTAACCTGCATCCTAGTAGTCTGACTC
TCACTAATAAGACTTGTCAAAGTTCCAAGAATCTGAAAGTGGATGATAAATGTCCATGTG
TATCACCATCCATGACCGAAAGTCAGCATCCACAGAACACAGAATTGGGACAGATGAACT
TAATAGATAAAGATGAATATCGGAGTTGTTCTCTTAGGGAATGATACTCTCCATGAGCT
GTGTGAGTCACAGCTGCCAGAAAAGAAAGAGCAAGGGAGCGTATGAAGGCAGCACAG

Sequence 3673

AGGTACTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTAAAANNANNNNNNNNNNN
NTNCTNTCTTTACTTGAAATTTTATTTAATTCCAGTTATTTAGCACATANTTTAGCATT
AAGCCCTCAAACGATACANCAATATGTTACATTCTCTTGNNAACAGTTGTTGTANACT
GTNAANNNNNNNNAAANGNAACTCCGACTTGTGCCTAATANGANTTGACCTTTAANAGGT
TTNTTTTGCTGTGNATGGGGNGGCTTNGCTTGAACCTCCATTCTGTGCCTTGTAGCTGGA
GANGCTGGGAGNATGGATGGTCCTGATGCCCTTGGCACCTTGATTTTCANTGAGACCGGAG
GAGGCANNNANAAGGAGGGGGAGGGAGGGAA

Sequence 3674

GGCCGAANTTGGGAAGCTTCCCACCCGCGGGTGGGCCGGGCCCCGCCCCGGGGCCAGGGT
ACCACTTTGGGGGNNAAAAAAAGGGGGGGGGGGGNNAAAAAANCCCCCTTAAAAATTTNT
TTTCATTTTANNAATGGGGGATTTAACCCNNCCNTGGTTTANCTTTTAAAAATTTAAA
AAAAGGGGGGTTTTTTNNCCCCCCCCCNNAANNGGGGGGGGTTTTTTTTTTTCCCCNA
AAAAAGGGANTTTTTGCCCAAATTCCTTTNGGGAAAAAATTTGGNAAAAAAAGGGGGNC
CCNTGGCNCCCCCCCCCTTTTTNNAAAAAANCCCCNNANNNNNNNNNNNNNNTTTTTTTTTT
TT

Sequence 3675

AGGTACGGATTGAGAAGTTGCCCTTCAGTATGTCGCTGTCATAGGTGTAATCGATGGCAG
GGGAGATGTGCTGCGAGAAGATCTGGGCCATCATGGTGCGGTAGGCCTTCCCATCCACGT
TGGTCAGCGTGTGGTGCAGCACTTCATGCAGCTCTGACTCCTCCATCTGGGGTGGGGGCA
GCAGCTCACTCTTGAGCAGTTCTGTGGCTGTGGGCCGTTTTGCTGGATCGTGGTTCAACA
GCCAGGAGATGACTGATTTCTGCTTTGCATGCTCTCCATCGTCAAAGTCTTCTGGAACT
TAGGCGAAGTGGGCTAAAAAATATATTCAAATCAGCAAGGTTTT

Sequence 3676

GNGGCCGCCGGGCAGGNACACAACTCCTACTTCCAGAAGAGAATNGTTTANGTTNTTC
TGGCCTAAATTTTATGCAATGAATAAAAAATTTAAATACTCTTCATCCATGAT

Sequence 3677

CCGGGCAGGTACATCGAGCCCTCAGGGTCCCTGACTGGTTCTCCAGCCGCCCATAGGCT
ATGAGCATCCCCGTTCCCTACACAAAGGACCACTGGGATTTATTAAAGGTTATGCCTTGC
AATGCAGTACTGTTTTTCATATGTGTGATATTATACTACTTTCTCCAATTTTCTCTTACA
TCCTACCCATTCTTTTTGCTCAATCTTTTAAGTCTTTTAATGAAATAGTTATACAAAAA
GTGTATAGAGTCAGGTGCGGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCCAAGG
TGGGCGGATTGCTTGAGCCCAGGAGTTTAAGACCCAGCCTGGGCAATGTGGN

Sequence 3678

AGGTACATTTGAAACATTTTACCATGGCAGTAAGTTNGACTGGGAGCAACTGTTCAACAC
AACTCTGTAGGAATACACCGATTTTTTATACTGTGCTGCCTAATATGGTAGCCACATGT
GGTTTCTGAGCACTTGAAATGTAGGTAGTCCAACTGAGATATGCTAGAAACATAAAATA
CACACCAGACTTCAAAGGCTTAGTATGAAAAAATGTATATGAAAAAATTCATATCGAT
GATCTTGAATATAGAGGCTGGAAAAAATTATTTTCATATTGATTATATACTAAAAGATAAC
ATTTTCAGATACACTGGGTGAGTAACTATATTATTAAGTTTAATTTCTCCT

Sequence 3679

AGGTACAACTTTTGATTCCCCCAAACCTTAACTGCTAATAGCCTACTGTTGACTGGTAAC
CTTATTGATAACATAAATAATTGATTAATCCCATACTTAACTAGTATCTACATGTATTC
TATGCATTCATGACATACCTAACCTTTTCTTGATTTTTTTTTTTTATGTTTCTAGGCTACA
TGGTTCATCTGCTAGTTTTTTTCATATTGTCACAATTCCCAAAAAAATTTTCCAATATGTT
TATTGAAAAAAGCCCTACATATAAGTGGACCCACACAGTTCAAACCTTTTGTTGTTTCGAGG
GTCAACTGAAATGAAATTAATTAATGAATTTTTTGAA

Sequence 3680

ACCGCGGNGGCGGCCGAGGNACAGATTTGTGANNGGNATATAAAACCCGAGCGCGGCNGG
ANANANGGAGAANGNCGGGCCAGNNGGAACCGNAGAGAGCAGANACCACAACAGCANNNG
NNGGGAGGGNNAG

Sequence 3681

sequence 5000
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAGAGTCTCGCTCTTGTTGCCC
AGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTG

Table 1

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AGATTACAGGCATGAGCCACTGTGCCCAGCCTGTTTGGTTTGGTTTTAGCAATTAANATA
ATTTGGTTGTAAAGCCTTGCTTGTGTTGCAACAATGAANATGGCACTTGAGATTCTGGAAA
GGACTTTNTAACTCAAGGACCTATGNGNGATTGCTTTTATTACCTTTTGTATTATTAGG
TTTTCAAGACTTGACATTT

Sequence 3689

AGGTACTTTTTTCTTTTTCTTTTTTTTTTTTTTTTTTTTAGTTTTTGAGATCGTGTCTC
GCTCCTGTTGCGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGATAATTGCT
TGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGG
CAACGGAGTGAGACTTTGTCTCGGAAAAAAAAAAAAAAAAAGATCTGGCGGATGAAAATAAC
CAGAATGAAAATAGCTAGAAAACCTCAGCAAGCAGGAAGCTCCCTTTCTCACCTTTTGT
CCCTTGCCGATAGAATCAGTCACTATTGGAAAAATGAAAGACGCTCTGTTTAAAC

Sequence 3690

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTAACTCATCCAGTAT
CTGATTCTGTCTTTTCTCTATCCATCTGTCTTCCATCTTTGCATCCATCATTTCAACGAA
ATTTACAGCCTATGCAGATGTTCTGTGGTCTTAAACATGTTGTATTCTCTTTGCCTTGG
CCATGCTTCTCTCCCTCCCAGCCGTTGTTCTCCCCACGAGAATATCTTCTCTTTTCTGC
TTCTTAGTGGTTCTATTCTCAGTATCTGAACTCTCATTTTCTGTCCCGGTACCTGCCC
G

Sequence 3691

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTTTATTCC
TAAAAGAAATTACTTGGCCAGGTGCAGTGGCTCACGCTATAATCCCAATGCTTTGGGAG
GCTGAGGTGGAAGCCAAGGAGTTTCAGGCTGCAGTGAGCTATGATCACACCACTGTGTTC
CAGCCTGGGAGACAAAGCAAGATCCTGTCTCTTTTAAAACAAAAAACAACAAACCAAAA
AAAAAACAAAAAAAACCTAAGAAATGTAATTAATCATTAAGTAGCTGCAAATTGAACT
GTTCTATTTTGATACTTCCTAAGAGTGTCAGTGTAATCAGATCATTTTATAATGGGTTA
TTGACCCCAAGGTGTCCTTTAGAACCACCTGGAAAGCTTTACAAAAAAAAGGGTGA
TTTTGATTTAAGTTGTTATGGAATAGGACCCAGGTATCAATTTTTT

Sequence 3692

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGCTGTCCCC
TCTCTGACTAGAAAACAGTTTCCCTAGATACCTGCATAGTTAGCCCCCTGAGCTTATTTT
AATTCTCTGCTCAAATGTCATGTAAATGGTGACATCTTCCCTGACCATCTTATATAAAAT
AATACTTCCCTTTCCCTGATATTCTCTATCCACCTTATCCTGTTTGATTTTCTGCACT
GCCCCATCAACCATTGACATATAACATGTCTACTTGTTTATATATGTATTGTGTTTCACC
AGCATTGAAATGTGACTTTCACGAGGGTAGGGATTTTTGTCTGTTTTATTTAATACTGTA
TCCCCAAGAATGCCTTGATATAAATTGGGACTAACAAATATTTATTGAATTGAATAAATGA
ATACATTTGGGGAAGGGCGCAAAGGAGTCTTGCCCTGAAAATTCATTTTCTTTTC

Sequence 3693

GGCCGAGGTACCTCTGGGCCATTTTGCAGAACCTNNCTNNTTTGGTTTTTGAGGAAAG
CTCGCTCCCTGCCCAGGTTTTTTCATTGNTGATCGAAANTAACACCAGGTGGTGAATAGAG
CCCCTCCTAAGGNTGCTCAGGATAAATCATTTATTAAATAGGTCTGCTTATCAGGAGGGG
CGTGAAGGCTCCCAAAGGAAATGCTGGCACCTGGGCCAGAAAGCCAGGGCCTCTAACTC
CTGGGGTTGATCTCTTCAGTGAAGTTTGCACCCTACAAAGGGAATATGGCCAAAGC

Sequence 3694

CCTCGCGGTGGCGGCCGAGGTACGTGGAGAATANGNCATATATGCCACTAGGCTACNTGA
ACTNTTCACGTTTGTATTTTGTGTTGGCCTATGTATAAGCCAATCTAGCATGTTTGAGGG
CATGTGTGAGAGTAGGTAAGGGAGCTGTAAGTTACATTCAGGTGGGAATTTAGGGCTTTC
TGCACAAAAAATTCTAATTTCTCTGTCTTTTGGCTATGTTGCATCTCCAGTGTTGACAG
GTTAGTCTGCATGATTAATAACTGAGCAAGCTGTAGAGCCATGCCAGTAAGTCTCCAATT
CCTGAACGTGGCCACATTTGTCTTTTGTATGTGACTTTCAACCACAAGCCACAAAGTAAGT
CTTTCAGTAGGCTCCGTTGACTTCAGTCTTTATATAAA

Sequence 3695

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAGACGACGC
TTTCTTTGCTTGCCCCAACCTGAGAGGAGTGTTATCGGGGAACCCAGGATCTCCTCCATC
TCCTATAGAAAGCAAGTTACAAAATATCAAAAAGAAAGCCCAAATTTTCCATGAAGAGG
TTACATATCTAGGTGTCATATTGAGCCACGAGGAACACTGGTTTGGCTATGAGAGGAAGC
AAGCCATTTGTGCACTTCTAACCCCGACTACCCGATGACAAATAGGAATTTTATAGACGCA
GCAACATTCTGCCACATNTGGATTCCAAGTTTTTCACTGATGGCTAAGCTGTTATATGAC

Table 1

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NCCACAAAAGGAGGGGAAAAGGAGCCCCCTTTTTTAAAAAACTAACCAAGGAAATAGCCTT
CAAACAGATCAAGGGAAGCTTTAACCCAGGCCCCAG

Sequence 3696

GGGCGAATTTTAGCTCCCCGCNGTGGCGGCCGAGGTACCTGTNTTGGCCTCCTACNGTCC
TTTTTACTTNTTTTGTNTTTTAGAATAAGAGACAGGGTCTTACTATGTTGCTCAGACTGG
TTTCAAACCTCCTAGGCTCAAGCAATCTTCCAGCCTCAGCCTCCTAAAGTGCTGGGATTAC
AGGCATGAGCCACCACACCCGGCCAAGTTCTTTACCATCTTCAGAAGGCTTAGCTTGCAC
TTTTGGAAGAAGAATAGACTCCCAGGAAGACTGTGAGAGAGATTTGGGGCCCAAATTGAT
ATTAACAAATACACTGAACCTTGATTGTATTCACCATGTTCTGGCTCTTGAGAAATGAGAG
TGCTAGTGAGGCTGGTGCCACTTTGGGTATTCTTCTGGACCTGCCCCGGCGGCCGCTCTA
GAAACTAGTGGGATCCCCCGGGCTG

Sequence 3697

AGTTNAATTGGAGCTCCCCGCGGTGGCGGCCGAGCCGGTAACGGAGAANGTTTACGCCGA
CTTTGGCCTGTATTAGCGCGTATGGCCTCGGGCCCTCGTTCCCCAAGGCGTGCCGCCTCC
CTGTTCTCAGTCGCAGGCTGAAGCCTTGCTCTGCTCTCCTCCTTTTTGGTTTGGTTTGGGA
ACTGACTCCGAGGGTTGGGAGAGCGCGTTGGTGGCGACGGCCGAGTCAGATCACTATAAA
CAAATTTCCACAAGAGAAAATGTTGAAATAGGAGTTGCGGATACATTGGATATACTGGA
TGAAATACAAGCGGTTAATTTTTGTAACTGAGGGAAAAGCCACATTGCTGGTTACATG
TGTAATCACTGCGTTATTGCTTTAGTCATTGTCTCTNTTTTAGCAATGACCAAGACTGG
AAGAAGTAAATAGAGGAAAGTGAACCATGCATTCTTTCAGTGCGGGTATCTTGGC

Sequence 3698

CCGCGGTGGCGGCCGAGGTACTGGAACAGGGATAAGTTCTTGGATNAGGTGCCAACATAC
CTATAAAAGCTGATTTTTTGAGTAAATTATTGATTCTAACATATGTAATGGATTTGGTGCG
ATAATTTTCTGATCTTTAACTATAAGTGACTTTTTTATTCTCCACCAGAAAAGATAAATGA
CTGAGAATGTAAGTCTGCGCTCTGATTAACACAATGGAGAAACGGAAAACTATCTCTGT
TAAAACTGATTCCTGTCAATCTTCTGATATCAAATAAGAGGAAGGAAAATAAACTTTTT
GTGTGTAGATAGAAAACATACCTGAGGCCAGGTGCAGTGATCACGCCTGTAATCCCAG
CACTTTG

Sequence 3699

CGAGGTACGCGGGGGTGGGGGACTCCAGCCAGCCTGAGTGACATGATCCAAAGAGCCCTT
TTNGGTAGGAAATTGCCCCGGTGGAATCCCTCACCAGAGAAGCAGGTNGCAGGCCCTCGC
AGAGGATTAACACAGTGGCTGAACACCAGAAGGAACTGGCACTTGGAGTCCAGACATCTA
AAATTTGGTATCGTGCCCTTGATCCACCACAGTCAGCTGAAATTATCAGCCCAGGACCAG
TGGACCAACCAGCAGGACATAGACCATCTGACCCGAATGATCCTGCAATGAGACCACATT
GCCAGTGGAGATGACAACAGCACTGCTCTGGTCACTCTGGAAGATGACCAGTCTATGCAT
GGTGGAAGCTTGAGAAAATAGCAAGCCCTGCTCTAGTCACACCAAGAACTGACTAGTCTA
TGCA

Sequence 3700

GCGACTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACTGAGGCAGACGTTGTGGC
GGAGAAGGGCAGTGGCTGTAGCTGCNTTTTCCGTTTCCAGGGTTCCGACCAGGTCGTTGA
GGACTTCCACATGGAGATTGGCACAGGACCAGACTCAAGACACACAACCTCATACGTTGAT
GAAAAATTGGATATCACTACTTTAACTGGCGTTCCAGAAGAGCGTATAAAAACTAGAAAA
GTCAGGATCTTTGTTCTGCTCGCAATAACATGCAGTCTGGAGTAAACAACACAAAGAAA
TGGAAGATGGAGTTTGATACCAGGGAGCGATGGGAAAATCCTTTGATGGGTGGGCATCA
ACGGCTGATCCCTTATCCAACATGGTTCTAACCTTCAGTACACAAGCGTGCTGAAGTGGT
TGGAGAAGAGTTTCAGTGAGGACATCATGGGTGAGAACTTCCGTAGGTTCAAGCCATTCT
CCAGAAAGAGGGCGGACAACTTGGGTCTGTCCTTTATGAGAGCCCGTAAACATGACTTCT
TGAAGTTCAGCAGACTCCCATCGGCGGTTCATTGGTGAAAATCCCATC

Sequence 3701

CCGGGCGAATNGGAGNTCCCCGCGGTGGCGGCCGAGGTACTACTCGATTGTCAACGTCAA
GGAGTCGCAGGTGCGCTGGTTCTATTTTTTNATGGGGGAAGTATGTAGGAGTGGAAGATTA
GTCCGCCGTAGNNGGTGTACACAGGCCAAGAAAAAACCGTATCAAAATGTAAATCAATT
CCACATTACAGCCAGTTAAAGAACAATGGGAAGACCAAGAAGGAGATGGCAGTGACAGAA
GAAGGGAGAAGGGGAAATAATGGGCACTAAGAAAGCAGAAAGAGACATATTTGGAGGGAG
ATGGCTACCGAAATCTGGGCTTTTCTTAGATCCTCTCCANGGAAAGTTATCACTGGAAAT
ACCCAAGGCCCTGATTGTATGCACTGTGCTAGGGAGAAAGACATTCAGATGCTGAAATAA
AAAAC TAGGGAATNAGTAAAAATTGGATCTCTAAGACAAATAAATTGATCAAAC TATAAT

Table 1

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AATAATCAAACCTTCTAATAATGNATAACCCTCTCCAAGAGANGAACCTCCAAGAACAGCT
CAATGGTTTGGTTGAAAAAAAAAAAAAAAAAGAGAAGTACCCTGCCCCGGGCCGGCCGCTCC
TAGAACCAAGGGGGANCCC

Sequence 3702

TACNNGGCGAATTGGAGNTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTTNATCGA
AATTAACACCAGGTGGTGAATNTAGCNTTTTCTAAGGTTGCTCAGGATAAATCATTTATT
AAATAGGTCTGCTTATCAGGAGGGGCGTGAAGGCTCCCAAAGGAAATGCTGGCACTGGG
CCCAGAAGCCAGGGCCTCTAACTCCTGGGGTTGATTTCTTCAGTGAAGTTGCACCCTACA
AAGGGAATATGGCCAAAGCGGCACTCAACTGAAGGCTGATATCAGGCGATTAGACAGCCA
TGCATTCTGCGTTTGTCTGGAATGGATTGTAGAGAGATGGACTTATATGAGGACTACCAG
TCCCCGTTTGATTTTGATGCAAGAGTGAACAAAAGCTATCTCTACTTGTCTCCTAGTGGA
AATTCATCTCCACCCGGATCACCTACTCTTCAGAAATT

Sequence 3703

CTCTTTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCAGGTACCATACCAAC
TGGAATTTAGGCTTTAAAAATAATGTTTCAAGGCCTTTTGTGGTGATTTCATGCCTGAAAT
CCCCTACTTGGGGAGGCTGCGGCTGGAGAATTGCTTGAGGCTAGTGAGCTGTGATTGAC
TGNGAACTTGCTTTGGGGTGCAATTAAACAATAAACTGATTTTATTTGGGAGAAACAAGG
AAGGGTGCCTTAAGTAGCAACCTAAGCATGATTTTTCAGCTTTTGCCCTTAGGGTTTAA
ATTACAATTCCAAAATGTTAGACATACTGTATTTTTCGTTTCAGTGTGGCTTTAATTTTC
CCCTCTTGCACTTTGTTCTGTAGTGCCCTTTTACATTTGGACACATAAGTTTATGCTTTTT
AGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTTAACTGTGTTTCAAACCTTGATTTTCTT
TCTCTTTTCTTTTCTTTCTTCCAGAATGTCTTATTTAAAAAGAAAGCTAAAAGCATACT
TCTAAGTCAGAACCTNTATTTTGGTGGAAGACTTGGGATAT

Sequence 3704

TCCNNGGCGAATTGGATTTNNCCGCGGTGNCGGCCGCCGCGGCAGGTACGAATTTNAGCAC
TTACATGAGGGGGNNAAGTCAGAGNTTTTGTAGGAGCTGAAGAAGGTGGCANNAGGAGCTG
GAGGAGAAGCTAAACATGCTCAACAATAATTATAAGATTCTGCAGGCGGCCAAACTGTAG
TTCCAGCTAACTGGGCGGCTGAGGCAGGAGAATGGCGTGAACCTGGGAGGTGGAGCTTGC
AGTGAGCCGAGATATCGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCATCTCA
AAAAAAAAAAAAAGAATATATTGACGGAAGAATAGAGAGGAGGCTTGAAGGAACCAGCAA
TGAGAAGGCCAGGAAAAGAAAGAGCTGAAAATGGA

Sequence 3705

CGCCCCGGGCAGGTACGCAATGTGATGTTTTTCATACAGTATACACTATGAAACGATTACTA
TAATCAAATTAATTCATATGTCTAACACCCCTCATAGTTGCCTTTTATTGTTTCGGTGATGA
GAGCATTTAAGATCCACTCTCTTAGAATGTCAAGTAGGATCCTTGCTTCCAAAATGCCAA
AGGAAAGAAGGAACAATGGTCATGCCATTCACTTGCAGCCTGTTCACTGCAAGAAGTGTG
CTCAATGCATGCCCAGGAATAAGGCTATTAAGAAGTTTGTCAATTA AAAACATAGCAGAGG
CCACTGCAGTGAGGGACATTTCTGAAGTGAGCCCTCAATGCTCACAGTGTTTCCCAAGCT
GTATGTGAAGCTATATTGCTGTGCGAATTGTACCTCGGCCGCTCTAGAACTAGTG

Sequence 3706

CTATAGGGCGTTTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCATNTTCTGGTG TAG
CAACGTGTGGTATGGCTACACTTAGAACATGAGAACATAAAGCCATTTTTATGCTTACTA
CTAAAAGCTGTCCACTGTAGAGTTGCTGTATGTAGCAATGTGTATCCACTCTACGGGGTC
AGCTTTT TAGTAGAGAGCATAAAAATGATAAAATACTTCTTGAAAACCTAGTTTACTATAC
ATCTTGCCCTATTAATATGTTCTCTTAACGTGTGCCATTGTTCTCTTTGACCATTTTCCT
ATAATGATGTTGATGTTCAACACCTGGACTGAATGTCTGTTCTCAGATCCCTTGGATGTT
ACAGATGAGGCAGTCTGACTGTCCTTTCTACTTGAAAGATTAAGAATATGTATCCA

Sequence 3707

GCGANTTGGAGCTCCCCGCGGTGGCGGCCGAGGACTCTGCTCAGCATGGCCACGTAGGTT
TACANGAGGGTNTTGANNTGTTCTTTTTTTNNNGACGGAGNCTCACTCTGNNACCCAGGCT
GNAATGCAGTGGCGCANTCTTGNTCACTTTAACCTNCACTTNCCTGGTTCAAGCATCCC
CTGCCTTTGCCTCCCGAGTAGCTGGGATNACAGGCNCACACCACCGCCAGNTAGNTN
TNTTGTATNNNTAGTAGAGACGGNGTTTCACCATGCANGCCCAGCTGGCCACGTNNGNNC
TAAAGCAAGGGGCGNGAANAAGGCACAGGGAGGNATGTGGCTGNNCTCGNGGTANNTCAT
TCGGCCTAAATNGACCTGGTATTAAATTT CANGAAGGANCTNGCNNTTNCCTCTTCTAGAC
CCTTCTCTTTAAAGGNTAAANATTAATGTTT TAGANTGACAAAGATGAATTATNACAATA
NATCTGATGACCTGCCCCGNGCGCGCTCTAGAACTAAGTGGATCCCCCGG

Table 1

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Sequence 3708

CGGCCGCCCCGGGCAGGTACAGAGTCAGGACAGGAGCTACCCCGTTATCCNNACAAANTNA
GAGNGANAGGANCATCATCCNCNCTTTACATNGTGAGGAAACAGGGGCAAGGAAAAGCAN
TTGCCCAGAGAGGCACAGCTAGACAGAGGGGAGCATCAATTNGAAAATCCAGGCNTTCTC
ACTCCAGGGCCCNCTCTAGCTACATAAGCAGAGGGTTTCGGCAGNAAANGAGGAGCCCAGC
TCCGAAGATGGNAGGGCNGGAGCCCAAACATTANANCCCCCTTGAGCACATGGGGCCAGCC
NTGANAGNGCAAAGCCCCNGGGNCAAGGAAACCCGGCTCTACANCANGACGTGGGGGAAC
CNGGGCAAGGCTTTAAACCNACCCACACCAGGGCNGCGCNGGGCCANCAAGATTCCCTAN
CAGGGAGAGGGGGACCTAAGAAAAACCANCTGGAGAGCANGGCTGCAAACCANAGGGGGG
GCCAGCCCCCTGCCCAAAGAGCCCGAANNNGCNCACNAAACAAGGAAGANGGGCCNAACAA
NNGGAAANNGGNANCAAACCCNTTAAAAAAGGGGGANAAAAANGTTNNGAANNCCAAGGG
CNCNGACCCNNGGGGGAAGGGACGGNAAAAGCCAAAAGAGCCCCACCCCNACCCCGAAAA
GACCCGGGACCCNNGGGCCGGTNAAAAAAAAGGGGACCCCCNNGCGGGAAGNAACCAAAA
ANNNGCNAACCAACNCCCCCANCCCCNANNGGGGGGCCCC

Sequence 3709

CCGGGCAGGTACTTCTTTAAGCTCTATTCAGNAGGGNTCCAGCCACTGTTTTTTTGTGCG
NNCCTAGCCACGGANGGGGNTTCTNGAAACCNAGAGAAANCAGGTAATAACCAATCATGT
CGNGCTCGTATNACCATCCTTTCAANGNCTGCCTCNGAGNANACNGATGANCAAGTAGGC
AAACTACNTCTACTTTCAAAGAGCCCCAAGGGCTTAATGACCCCATTTGCAACTGAGAAA
TGANTCTCGNTTTAGAAATCATTTCTATAAATGATACTGCTGGATTGAGGGCCGGGGGANG
ATAGCTGGAGGAACTGAGANGGACAATACNAACANGAGAATCNATGNCAAAGTAAANAG
GCAGCCTGGCTAAGGAAAATGAGCCTNAGCAGCTACTTCACAANTAAAGGGAAATCCAAG
CANTNAGNNAATANTAGGTGACATAAATAAAACANCCAGACTAGGAGAGTNAAGTNCCN
CGGCCCCNCTAGAACNAAGGGGACCCCCCGGGCNGCANGAANGCGAAATCAAGCTTANCC
GANACCGGCCAACNCCCGAGGGG

Sequence 3710

CGCCCCGGCAGGNACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTNTCTGTCGCCAGGCTGGAG
TGCAGTGGCGTGATCTCAGCTCAATGCAATCTCTGCCTCCTGGGTTCAGTGTTTCTCCT
GCCTCAGCCTCCTAAGTAGCTGGGNTCAGGCACGCACCACCACGCCAGNTACTTTTTGT
ATTTTTGGCANANACGGGGTTTCACCATGTTGGCCAANATGGTCTCGATCTCTTGACCTT
GTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCACCC
GGCCCCAAAAGTCTTAAACCTCTAAATATTTGTTTCTAATCTGGCTCTTCAAATAAATTT
TATCTGAAAACNAAACAAAACAAAACAAAAAAACCCACCCCTNCATAAAATCCCTAACA
GCTTGGGAAATCTACTTTTCAATAAAATAATACTTAAACTATTAACAAGGTNGAAAGGAATA
AAGGAATTTCAAAAATTAATGGAAGGAAATGAAAGAGCNTTTTTTTAAGCCGGTTAATAAC
CATTGTAACCAACCAAGTNGGGGGGGATTANGGGTGANAAAATTTGGGAATAACCGATGT
TTNAAANTTTTAAAAA

Sequence 3711

CGAATTNGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTTCAATGTCCTTCATTTGAC
ACCGTTTGGTTTAGCTCTCTTTGTATGTGTTCAAAAACCAAAGCGTTTTCTTTCAGAGCC
TCTCTTGTGTTATGGAGCTCAGTTTTGAGGCACCTGGACTTACTCTCAGCTTTAGAAAGT
TGCTGAGAAAGAATCAGAACATGAGAATTCAAATTTTCCTGTAAATGACGCAATTTATCT
ACTGTGCCCTGGAAATCAAGCTCTTGGTCTCTTTCTGTTGAGTGACTTTGATCATGATCA
TGTAGAGCAACATTCAGTCTACGATGGTATGATTCCATTTTCGTCAGTCTTTGCCTGCTTT
GTTTTTCCTTCTC

Sequence 3712

GGANCTTTTTTTTTTTTTTTTTTTTTTGNANNCANANTTTTTATNNGAGCAGANATCACACCA
CTGCACTCCAGCCTGGGCGACTCAGGGAGCCTCCGTCTCAAAAACAACCTTTTTTTCATCC
ATGGACAATNGTTGTCTTGTTTTGGTCCTCTTTAGGAGGTGGTTTTTATAATCAGCTATAA
AACTCCAATAGGNGCTCTTGAATGCAGGTTTCTGATAACTTTGGAGATTGGGACAACAGA
ATAGAGGAAGAACCTTCAGGACTCATGGAGAGCTAAATGTTTCATGAGTATCAAGCAGGAA
TTAACAGGAATTAAGTGCATGGACTGAACCAATCTTTTTTA

Sequence 3713

CTNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAC
ACAGATGGCATTTTAAAGTTTATAAATGAATAATGTCTGATGAAAACATCAAAGCTACTT
TCTAGATTTGTGGAGATTGCCCAGATAAACGAAGTCACGGTAAAAGGCTAGTGTGAGAAA
CACCAACAGCAGGCCCATCTCAGATCTTCACTATGGCAACTTATGCAAGAACTGTTGAA

Table 1

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TTAGACCCGTTTCCTATAGATGAGAAACCATAACAAGCTGTGGTATTTATGAGCCTCCATT
TCTTATACTACTGCAGTGAACCAACATTGGATGTGAAAATTGCCTTTTGTGAGGGATTCTN
ATAAACAAGTGGATGTGTCATATATTGCCAAACATTACAACATGAGCAAAAGCAAAGTTG
ACAACCA

Sequence 3714

CTACTNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGTGC
GGCTGGAATGTCGTNTATTGGGAGTGCCACCACCTCAGATATTTTGAAGAAAGAAAGTG
AATCACTCACTCACAGCACTGACCGAGTGAGGTAAGACTGCACAATGAGAACCTGATCCT
TAACTGTTTCAGTCCTAATGATGTATCAAAAGATAACATTTTATATAGCATGGAAATCTATG
TGTAAGAACCCACATAGATGTTTTGATTTTGTATGAAATCAATCAAAGACAAAAACCATGC
GTTACCCAATGTAGGATTAAGCTTTTAGAAGGAAGCTATGGGTGTTTGATCTAATGGTGA
TTTCTTAAAGTGTTTATCATTTCTATCTAAAAGAAAAGATGAATTCATTTGCTTTAGTGA
TAAAAGACTATTTCAGTGGTTTTTGT

Sequence 3715

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACCCCATCCCCAGGAG
GCCCTTTTATACCAGAAATCCCAAGTCCATTAGCTACAGGCTGATATTCAGGGACATCGG
TGTAACAAAGAAGTGGGATATGAACATATCCCTGATTTTTTTTTTTTTTTTTTTTTT
TTGAGACTAAGCCTCACTCTTGTCCCCCAGGCTGGAGTGCAATGGCGCGATCTTGCTCA
CTGCAACCTCCGCCTNTNAGGTTCAAGAGATTCTNTTGCCTCAGCCTCCTAACTGGGATA
ACAGACACCTGCTACCATGCCCGGCTCATTTTTTTTTTGTATTTTGTAGTAGAGACGGGGT
TCACCATGTTGGCCTGGCTGGTCTCG

Sequence 3716

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGGACCTTTTTTTTTTTTTTTT
TTTTTTTTTGGGNNACGGGAGNCCCACTNTGTCACCCAGGCTGGAGTGCAGNNGCACGATC
TCAGCTCACTGCAACCTCCAACCTCCAGGTTCAAGTGATCCTCCTGCCTCAGCCCCCTCCA
GTAGCTGGAATCACAGGCACATGCCACCACGCCCGGCTAATTTTTGTATTTTGTAGTANAG
ACAGGGTTTCGCCATGCTGGTCAGGCTGGTCTTGAACCTCCTGACCTCAGGNGATCCACCC
ACCTNNGCCTCCAAAGNGCTGGGATTACAGGCATGAGCCACTGCTCCTGGCCCCAGNTTN
TAATTAATTAAGNGATAAAGATCATTTCAATATCTTNTTCAGTTCATAGAGTTCTACA
ATGAAGGCTTTTCATACAAATGAATG

Sequence 3717

CTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACTTCTTTTTTTTTTTTTTA
AGAGATGNTATNTTGCTACATTGGCCAGGCTGGTCTCGAACTCCTGGCCTGAAGTGATCC
TTCTGCCTTGGCCTCCCAAAATGCTGAGATTGTAGGCATGAGCCGCCATGCCTAGCCCAG
CTTGTCTTTTTGTTTACTTACCAGTGTTTTTCAGAGAACAAAAATTTTAATTTGATGAAG
TCCAATTAATTAATTTTTTAAATAGAGNGTGATTTTTTTGTATGTCTAANAACTATT
GTCTAGTCCTAGGTCCTAATTCTCCTTTGTTTTCTTCTAAATGTTTTATTATTTTACCAT
GTTAACGTTTAGATTTATGATCTATTTTAAGTTTTTTTTTAAGTATGAGGNTTATGTTTTT
TGNTTGG

Sequence 3718

NCCNGGGCGAATTNGAGCTCCCCGCGGNGGCGGCCGAGGTACTTTTTTCTTTTTTTTTTT
TTGAGACAGGNTTTTNACTGTGTTGCCAAGGCTGGAGTGCAGNGTGTGATCACGGCTTAN
TGCAGCCTCCACCTCCTAGGCTCCAGCAATCCCCCACTTCAGCCCCTCAAGTAGCTGGG
ACTACAGGTGCATGCCACCATGCCAGCTAATTTTTGTATTTTTTTGTAGAGACAGGGTT
TTGCTCTGTTGCTCAGGCTGGTCTTGAACCTCAGGACTCAGTCTAACCACCAGCCTTGGC
CTCTCAAAGNGCTAGGATTACAGGCTTGAGCCACCATGCTCGGCCTATATTTCTTCAAA
TGNGTGTTTTGCGCTTAAGTATTTCTTCTGTTGGCCAAATCTCTGATTTCCCATTTTAAT
TAAGNCTTAANGTTTGCAAANTATTTTTTTNATCTTTTAAAG

Sequence 3719

TTNNAGCTCCCCGCNNGGGCGGCCGAGGTACTGANCCAAAGGGATATGTCAAAACNCCCT
TTTTTTTTCAGGGACCAGGCAGGAGAAGAGAGNCNNAACACCNGGGNAATGNNGGGAAATA
NATGTCATAATGCTCCTTTTTTGGCAGAAGAGTTACATTACCAGGGTGTCAAACCCAGCAA
TATGTCACAATTGCTTATGTGGNCGGGGAACAGGCAGGAGAGTCACATAACCTGGGCATA
GGGCTCAGAGACATGTCCCAACGCCTTCGGTAGGCAGTGCCAAGGCAGGGGAGGAGA

Sequence 3720

ATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACGCGGGAAATCAAG
GGGTCTTAAGAGTTGTTTCCTTCTGAGGCTGGAAGAGAATCTGTTCTGTGCCTCTCTCGT

Table 1

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AGCTCCTGGTGGTTTGCTAGAAAGTCTTTGGCATTCTTGGCTTGTGACAGCATAACTCTG
ATATTCATATGGCTTTCTCACTCTATCTCTGTATCCAAATCTCCCCTTTTCACAAGGACT
TGATCATATTGGATTAGGCCACCCTAATGACCTCACCTTAAGTAGATCATCTGCAAAGA
CCTTGTTTCCAAGGTGCTAGGGTGGTGGGTGGAGACAGGGGAGAGACTATTCAATTCATA
ACACCTAAGTATTGTGTCTCCTTAGNCCGTTTCAGTCCCCACCCAGCCCTGACTTGACTC
TCAGCTGCTTTGGGGT

Sequence 3721

TACCAGGTTTTAAATCCCNCCAATTTTTTTTNGAATGCCTTTTGGCNTAATGGGGAAAGG
CCCCTAANGNNGAGAAATNGNAAATTACCAAAAAAGGAACCATTTCTNNGNNGNAAAAAA
GGNAAAGGGGGGGGGGAAAAAGGGAAAAAGGGGGAAAGGAGGAAATGGGGNCCTCCAAGG
TANGNANGAATGNAAACCTCCAGGGTNGCCAAGAAAATTCCTTGAGGTNCTCAAAGCACC
AAGGGGGCTTACCTAATNGCCAAGAAAAGGTNNGGGGGTAAAAAGGGGGAAATTGGAGGNA
AACCACCTCCAAGGGGAAGCCTTCGGGGTGGGGGGCCACCACCAAGTTCAATTGGGGGGG
GACCTAAGGGGCCAAGGTTTCCCAAAGGGGGAATTTGGGAAAAAANTAACCGGGGATTAA
AAGNCCAAGGGTTCGAAGGAAAAAAAGGCCGGACCATTTCCAAGGAAGGAAACCTTTT
GGTNAAGAATTGGAAGGTTGCCTTCCCGGGGGGGGTTTTTGGGTGGGAACCAATTTTTGG
AAAAAAAATTTGAAGGAACCAAAATGGGCCCTTGGCCCTTCAAATTAAGGGNCCCTA
AGGGGAAAAAAACCCCCCCCCAAATTAACCCGAACCAAGGGGGGAAGGGGCCACCAAGG
CCCCATTAAAAAGGGAAGGGAAGGTTCCAAAAAACCTTTNG

Sequence 3722

NCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTT
GATTATTANTTTAAAGGGGAGATAGGTAGGAGTAGCCGTGGTAAGGNCGATGAGTGTGG
GGAGGAATGGGGT

Sequence 3723

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCACTGCAACCTCTGCCTT
CNTTTTTCAAGCAATTCTTCTGCCTCAGCCTCCTGAGCAGCTGGGACTACAGGCCCGTGC
CCCACTACGCCCAGCTAGTTTTTTGTATTTTGTAGTAGAGATGGGGTTTTATCATATTGACC
AGGCTGGTCTCAAACCTCTGACCTCGTGATCCGCCTGCCTTGTCTCCCAAAGTGCTGGG
ATTACAGGCATGAGCCACTGCGCCCAGCCCAAGACTCCTATTTTTTAAACCTGAAAAAT
TTTCATGAATGAAATGCAGATAGAATCTGTAAAGTCACTTGCTACATTAATAACTCAGGC
AAAGGGAGGTATTTCTATACATTATGATGTGTGCCTCCAAGCTTGTTTCAGAAATAATA
TTTTAAATAGGT

Sequence 3724

GGGCGAANTTTAGCGCACCGCCGGGGCGGCCGAGGNACTTTTTTTTTTTTGNTTTNAAC
CCTTNTNTTTTTTANCANAGACGGGGTTTCGCCAGGGGGGCCAGGCNNGGGCTCGAACNCC
NGGCCNCAAGNGATCCACCTGCCNCAGCCCCCAAAGGGCNGGGANTACAAGGGNGAGCC
ACCGCAACCGNCCCTGTATACNCNNNACCCACACAGCANANCCACATTGCCNACAACACA
GGGGGGGGCCCAAAAAACGCCNAAANGNTNNGGGGGCNGAANNCAAATAAATAAAGACCNG
CAGNTTATANGCATAAAANCANAAACNCTAAGGGGATCACTACCACATTGCCAAATCCAC
CANAATAAAAGG

Sequence 3725

CCCCGCGGGGGCGGCCGAGGTACACTATACGGAGGTATTAAGGCCCTTTTTTTTGGACT
TGAAGTTGTTAAATGATATTNTAGAGTTTTGATGTGCTNAAAAACTGGGAATTGAGAAT
TTTTTTTTTTTATTTTTTGNNTTNAAGTNAAAAATTAAGCACAGATGCCAGGCATGGGAG
GATCACTTTGNGAGGCCAAGGCGAGAGGATTGCTTGAGCCCAGGAGTTCAAGACCAGCCN
GGAGAGCATAGCAAGACCCCATCTCTGACAAAAAAATTAGCTGGATGTGGTGGGCATGC
CTGTAATCCCAACTACTTGGGAAGCTGAGANGGAGCATTTGTTTGAAGCCAGGAGGTCAA
AACTGCAGTGAGTGNTGATCATGCCACTGCCCTTTCGCCTAGATGACAGAGGGAGACCC
CACAAAAAAAAGGACCTGC

Sequence 3726

CGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAGGCTATGGTGAAGTTTT
NTTGTTNACTTGGATGCCAGGTAGGCATGTCTTCAGGTTCTAGTCACGGCAGTGGTAGGC
CAAATATTCCTTTCTTGGGACCTAGGGCAGTGTATAATGGCATTAGTGTTGGCTAGTCC
AGATAGCTGATTCTTGAACCTCTAGGTGGCTTGCTTGGTTACTGGTAGTGACAGCAGTAG
GCCAGTTGGGTGGGCAGGTTTTTGGGCTCCTGGGCATGAAGTATGCTATGGGCAATATCA
GTAGCCGTGGCAGGACAAATCTCTGGCTTCCGAGTTGTCTATCCCGGT

Sequence 3727

Table 1

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GNCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACCATCTTGTCTCTCAGTAGG
TTCATGNTACTTAAGAGGAAAATGTTTAATATTTGCTTTATCTATTAGATCAGAACCTCT
TCGAAAAAGAAGAAGGTAGATCCTAAAAAGACCAAGAAGCAAAGGAGCGCTTGAAAAG
GAAGATCCGAAAACCTGGAAAAGGCTACTCAAGAGCTAATTCCTATTGAAGATTTTATTAC
CCCTCTAAAGTTCTTGGATAAAGCAAGGTAAGGATCCTTCTCTAGGGATGAAGTCCTCAG
GACAAAGGAGTAATATCAACTTCAGGTAGTTGTGTCTGTAGTTCACACCTGTGATAGTCA
TTGGTCAGTAGGCTTGAGCTGACTTGGCCCTAATGAGTCCTTGCTCCTTTTGG

Sequence 3728

GNAGCTCCCCGCGGTGGCGGCCGAGTTGTGATGTTTGCCNCACAACAGGGGTTTTTTTGGC
AATGTCTGGAGACATTTTTTATTGTTATAGCTGAACAGGAAAGTGCTACTGGCATCTGGGA
GGAGGCTGCTAAACATCTCACAATGTGTTACCCTGTCCCAAATGTCAGTCGNGTTGAGGC
TGAGAAACATGGTTTAAATGAGTCAGAGGCTGGCCACAGTGGCACGTGCCTGTAGTCCCA
GCTACTCAGGAGGCTTGCGGTGGAAGATTGCCTTAACCCAGGAGTTNCAAAGACTAGAC
TGGGGTGATNNTANCAAGACCNTCTTGNNTTNAATAAAGAAGGTNAAAAAATNNNTTG
GANTTAAAAGNCTTNGTAAANNTNCCCNCCNTTTCAAAAATTNAAAGGGNTTTTAAACC
CNAAAAAANTTTAAAAAAA

Sequence 3729

NCCCCGCGNGGCGGCCCGCCTGGGCAGGTACAGTNGCACAATCATGGTTTACTGCAGCCT
CGATCTCCCAGGCTCAAGTGATCCTCCTACCTCAGCCTCCCGAGTAGCTGGGACCACAGA
CATATCCCATCGCACCCAGTTTTTTGGGTTTTTTTTTGTTTTTTTGTTTTTTTGTT
TTTGTCTTTTACAGAGAGATGGGGTCTCACTATGTTGCCAGGATGATATCAAAATCTTGG
ACTAAAGCAGGTCCTCCTGCCTTGGGCCCTCCAGGGGGGTNGGGAATAANAGGGCANTG
GGNAGCCNNCNTAATCNANGNGGGGGNTTTTANACNTCNAAAAAAGGC
TTTTNCCCTNTTTTTTTNGNGNGTTTAAAAAANNGGGGGGGGNGG
NNTTTTTTNAAAAAAANNGGGGGGNNNANNAANAAACNCNNTNCCCCAAAAA
AAANTTTGNGGGGGGGGNGGGGGGNCCNCCCCCNAAAAAGAAANNTTGTGGNNN
CCCCCCCCCCCC

Sequence 3730

CCCCGCGNGGCGGCCCGCCTGGGCAGGTACAACCTTGAAACATGAGCTTTTTTTGGGNCACA
TGCCTGAGGNAGTGACAGGCCAGCTTTGGAAGAGNGGAAGCCCTAGTTCCAAATNCAAGC
ATGCTTTGAGTATAAATTAAGTNTACCTCTTTTTTGACAGCAACATGGCCAATCTTTCCT
AAGCTGCTCAGCTAACAAGAAAGGGAATCAAACCTGCTAAGAATTCNAACTTCAACCAG
CCAAAAGGGTAAAGTAAGGGAAGNCTTAATAAACCTAATTNCANNCCCCCTAACCCANN
NAAACCTNGAAAAATTAANGCGGGGGTNCCTTTAAATTTTCANNNANNNAGGGGGG
GGGNCNNCCCTAAGAAACNNGGGGGCNNTGCGAANNCGGAAAAAACCCCCCCCCNAA
AAAAAANGGGNAANGGGGGGCCCCCNCTNCTNGGGGGGGGNGACANCTCNNNNGGNNA
AATNGGGGGGGGGG

Sequence 3731

GTGGCGGCCGAGGGACTTTTTTTTTTTTTTTTTTTTNGGAAATTTCCCTAAAAGATT
CCTGCTTCCTTCTGGAACAACAGAGCAACAGGGCAGTTGTGATGTTGGGTTTAGATGACN
CTTATTTAGGAGATGGAGCAATAAGATCAGAGGTCTTCTAAGGATTCTGGGGAGTCAGN
TNTAGATGGAAACCAATATGAGNGNGTAGCCCCAGAACTGCTCANATAACCTGGTCAG
AACTAGGCAAGCTGGCAGGGGTTG

Sequence 3732

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACGCGNGTCGNTGATG
AAATNGANGCCAATNTTGAANAGNTCNACATCAGNGAGGATGACATNGATGATGGATTNA
GGANACTGNTTGCCAGTTGGCAGGAGAGCTCCACGGGGGGCCAATAACTATGCTCTGG
TTATGTGTCCACAGGATGCGGAGATCCCTGNCTTTGAGNTGNAGACCATCCTGAGAAGGG
GTCTAGCAAAGNGCCAAGATATCAAGTCA

Sequence 3733

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGGTACCCANTACTTANGTNGNA
NTGTTGGNNCGAAAGTAAAAACACTACCTNTTTTGAGACTNTGCCAGGGTCCTGT

Sequence 3734

ATAGGGCGNTTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGTT
TGAATCGCGGTGCGACGANTTTTAGGTGGTGGGATCTCACCGTGGGTCCGATTAGCCTTT
TCTCTGCCTTGCTTGCTTGAGCTTCAGCGGAATTCGAAATGGCCGGCGGTAAGGTGGAAA
GGACTCCGGAAAGGCCAAGACAAAGGCGGTTTCCCGCTCGCAGAGAGCCGGCTTGCAAGTT

Table 1

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CCCAGTGGGCCGTATTCATCGACACCTAAAATCTAGGACGACCAGTCATGGACGTGTGGG
CGCGACTGCCGCTGTGTACATTTTCCTGAAGAAGCTTANATATAGTTGTGTTAAGTATTT
TCCCCTGGAATACGCCCCATTATACTTTCTCATGGATAGTCAGTTTGGTGCTTTTAAATC
CTCTCCTTTTAAAAAAGCATTTTTTGGTTAAACATTTTTTGGAGTCTGTTGTGTAATAAGT
GGTGAGTAAACAGATCTAAGTCCTGGTTCTTATGGAACCTATAGTCTACTACCGTTTTT
TTTTTTTTT

Sequence 3735

CCCCTATAGGGCGNTTTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTT
TTTTTTTTTTTNNGCATTATTATGAGGNTTTCCTTAAAGGTTGGGGAACCTGGGCGACTT
TGGCTAATGAGGAGCTCTGTGCCTTGAGCCCCCAGGCCATANAATAGTAAATAGTCTGT
GCTCCAGCCCTGCAGTGTGAGGTTCCAGTCCTGTGGGCTCCACACCCATCACCTGTATCA
GGAGGCTCATGTCTCACCTGTCTTCTTGCCAGCCTTGAGGATGGAGTCTGAGCCTCCAT
CGTGCACCACGCAGGGAGGACAGCGGACTTGTTCTCCGTGGTCATGGNCCAACAAAGGGG
AAGGGCAGTTCAACCGAAGTGCTGAGGGACGGTTGGGAGCCTTGTTTTGTATCCTCATCC
TCAGGAAAAAACAGGAAAAGTGCGGTGGNCAAATGGGAGGAGACCAACGTGCAAACTGT
CGGCTCAACAGACTGNGGAAGTTTCTGTTCTTGTTATGGGCGGGGGGGGGCGGGCTCAA
AAATCTTATTCAAAATTTTGCTTTCTCCCCACTGGTTGNCCTTTTCATAGACATCTCA
CCCATGAATAGCAGGGAAATGAGTCCCTNTNAACTATTCTTTTAAGAACCAATTAAAA

Sequence 3736

GGCGGCCGCCCCGGCAGGTACAGCTCCCAGTCTACTGATGTTTAAGGATGGTCTCGGTGTT
TAGGNCCACTAGAATAAACTGAGTCCAATACCTCTACACAGTTATGTTTAAGTGGGCTCT
TTGACACCGGGAAGAAGGTGGCGGGGTTTAGGGTGCAAACTTCAATGGTTATGCGGGGAT
GTTACAGAGCAAGCTTTGGTATCTAGCTAGTCTAGCATTCATTAGCTAATGGTGTCTT
TGGTATTTATTAATAACACAGCATAGGGGGACTTTATGTTTAGGTTTGTCTAAGAG
TTAGCTTATCTGCTTCTTGCTAACAGGGCTATTGCTACCAGGGACTTTGGACATGGGG
GCCAGCGTTTGGAACCTCATCTAGTTGTTTTGAGAGATAGGCCACTGGCCTTGGCCAGG
GCCCTACAGTCTGGGTTAAAACTCCAAGTCCACTTTTTCTCTTCTGACACATAAGAAG
TGTAAGAGGTTTTGTCAGGTCAGGTAAGCCCCAGGGCTGGGGCTGACATGGGGTTTTTTT
CTT

Sequence 3737

TTAGGGCGAATTGGAGCTCCCCGTGGTGGCGGCCGAGGTACGAGATGCCACGGCACGAAG
TCTACGTTCTCCTGATCCGAAACATCTTTTTGAAAATATCAATCATTGGCATTCTTTGTT
ACTATTGGCTCAACACCGTGGCCCTGTCTGGTGAAGAGTGTGGGAAACCCTCATTGCCA
GCATCTACCGGCTCCTTCTGATGGATTTTGTGTTCTCTTTAGTCAATTCCTTCCTGGGGG
AGTTTCTGAGGAGAATCATTGGGATGCAACTGATCACAAGTCTTGGCCTTCAGGAGTTTG
ACATTGCCAGGAACGTTCTAGAACTGATCTATGCACAACTCTGGTGTGGATTGGCATCT
TCTTCTGCCCCCTGCTGCCCTTTATCCAAATGATTATGCTTTTCATCATGTTCTACTCCA
AAAATATCAGCCTGATGATGAATTTCCAGCCTCCGAGCAAAGCCTGGCGGGCCTCACAGA
TGATGACTTTCTTCATCTTCTTGCTCTTTTTTCCCATCCTTCAC

Sequence 3738

ANCNCCCCGGAGCTCCACNTTNGNGGCGGCCCNNGTACTACCTGAGTCTGGGCAATTTAT
AAACAAAAGGGGTNCANGTGACTCACAGTTTTGCATGGTTGGGGAGACCTCAGGAACTT
ACAATCATGACGAACCTCGGGGAACCTTACAATTGTGACGAAAGGCAAAGGGGAAGCANCC
TTCTTCACAAGGTGGCAGGAGAGAGTGCAGGGGAAACTGCCACTTTTAAAACCATCAGAT
CTTGTGAGAACTCCCTCACTATCACAAGAACAGCATGGGGAAACAGCCCCCATGATCCAA
TCACCTCCCACAGGTCCCTCCCTGACACGTGGGGATTACAATTCAAGATGAGATTTGG
GTGGGGACACAGAGCCAAATCATATCAAGCCTCCTAACTTCACATTTGGTAAATTTGATT
TCTGGTCTTGCCCCG

Sequence 3739

CCCGGAGCTCCACCTTNGTGGCGGCCGCGGTACATGCAAAAAAAAAAAAAANTTNGGAT
GAATCTAGAACCATGTTGAGTGAAAGNTTNNAGANGCAAAATAATAAATACGGTATGACT
CCATTTACATGCAATCCCAGAGCAGGCAAACTAATCTATGGTGATAGGATTAGAAAGGT
CCCTCAGCAGGGTGCAGTAGCTCACACCTGCAATCCCAGCACTTTGGGAGGCCGAGGTGT
GTGGATCATGAAGTCAGGAGATCGAGGCCATCCTGGCTAACATGGTGAAACCCCATCTCT
ACTAAAAATACAAACAATTAGCCTGGTGTGGTGGTGGGCACCTGTAGTCCCAGCTCCTCG
GGAGGCTGAGGCAGGAGAATGGCATGAACCCAGGAGGTGGAGCTTGCAAGTGAAGCGAGAT
TGTGCCACTGCAGTCCAGCCTCAAAAAAAGAAAGTGGTTCCCTCAGTGAGAAGGAAAGG

Table 1

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GGGTTT

Sequence 3740

GCGAATTGGAGTTTNCCGCGGTGGCGGCCCGCCGGCAGGTACTTAAATATTATATATTT
TCCATTTTCATAATTGTTTTCTTTCTCTGTGGCTTTAAAGTTTTTGACTATTTTACAATG
TTAATCACTAGGTAACCTTGCCATATTTCTGGTTCTATATTAAGTTCTATCCTTAATGCTG
TTATTATAAAGCTGGTTTTTGTAGCATTTGTCTGTAGCAATAGAAATTTTACTAAGTCTCTG
TTCTCCCAGTAAGTTTTTTCTTTTCTCAGTAAGTCCCTAAGAAAACATTTGTTTGCCACT
CTTACTATTCCCAATCTTGGAATTGTTGAGCTGAAAAAAATTTGATGAGAAACAGGAGG
ATCCTTTTCTGGTGAATATAGGTTCTGCTTTAAGAATGTGGAAATCCATTGCTTTATAT
AACTAATATACACACAGATTAATTAATAATTGTGAGAAATAATTCACACATGACAAGGAGG
TAACATGCATGAGTTTTGAATTTTTTTTAAAAACCCAACCTGTTTGACAAAATATAGAACCC
AAATTGGTACCTCG

Sequence 3741

CCCCGGAGNTTCCCNNTTGTGGCGGCCGNGGTACGGTATTCTGTGAGCTGGGGATAGACAG
ATACCCTTTTCATTGTGGGCNNGGGGTTNATGTANCAAAGGACCAATTTTCCTGGAGATCC
TATTACNGAAGGGACTTATACTGGACACATCATGGAGAAAATCAGAAAGAAGGTGCTTA
ATAAGACCCACTCCTGGATGCGGCCACTCTCAATTCTCAGTGTCTTTGGGAAGCAAGGT
CGCCATCCACTTGTCTAAACAGATGATGATAGCAGAGGTGCTGCACACCTTCTCCCTGTG
ACTTGTGAATGCCTTTTCATGCTCCCAAATAAGGAACCTCTCTCACTGCTGTCTGCTCTGA
GCTGTATTTTCATTTTGATAGCCATTTGCAGGAGACACCTTTGAACTCCATGCAATGTAAA
AGATGTCGTTGAGAAATCTTCAATGGAATTTCTTCCCTTTTCCCCACCC

Sequence 3742

CCGGCGGCCCGCCGGGCAGTTACTTTTAAGGATNAANCCCNCCNNTTTNTTTTCGCCCAA
AACAAAACNNNATGGAAAAACCGACACCAAAAAAGGNGAGGGCCGCNGAANACCNGACAA
AACCAAAGGGAAAGACANNAGCGGGGAAAGNAAGAAGAAAAAGGGAAATNAGGANAAGG
CTTCCGGGGAGACANCAAAAANNAANNCAGGAAGCNGCGGAAACAAAAGGGGGCCT
TCTNCAAAAANGAACNCCCCNCGGGGAGGCGGGCCCTNCCCCCGGGAGGCGGGCACAAAC
GGGGGAACAACCCACACAAANAACCACGGGCNGAGCAGGGCCGAAAACCG

Sequence 3743

GAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTCTTTGTGANGGA
CGTCTTACTCTGTCTGTCAGGCTGGAGTGCAGNGGTGNGATCACAGCTCAGNGCAGTGAA
CTCCTGGACTNAAGCCACCCTCCCCTTNAGCCTCCCAAGTAGCCGGNACAACAAGCACA
AGCCACCACACCTGGCTAATTTTNAATAATTTTGTAGCGATGGGGGCCTCCCTGTGTTT
CCCAGGCTGATCTCGACCTCCGAGGCTCAATCTATNCCCCACCTCGGTCTCCCAAAGTG
NTGGGATTACAGGNTTGACAACTGTNCCCGGCCTGGGCTTTTTTGGGAANGAGTCTTCCTGG
TCCCGACAGTTCTCCTGCANGTCTTGTGGAGGCCANTCTTTGTTTTTTNATGACCNA
TTTTGCTTTTTTTGGAGTAAGAGGCCTGGNACCCCTGGGAGCTGGTTTTTGGG

Sequence 3744

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGNCCAGGGTACGCGGGNGA
CAGAAGCTTCTGGGTATGGGGCTGGAGAAGGGTCGGNGAGATATTTCCGTTAGGACATCG
CTGAAACACAGACTGGGATCAAACCTGTGCTCATAGTCCTAAGGATCTCCAGCACCCCTGCC
GGTGGCACTACTGANAGACGAGGTGCCAGGGTGGTTCTGAAAGTGCCTGAGCCCCAACT
TATCAGCAAGGAGCTCATNATGCTGACAGAAGTCATGGAGGTTT

Sequence 3745

TCCCCGNGGNGGCGGCCGAGGTACAACTATGCATATNATAACTACCANGTTTTATNAGG
TCAAGACTAAATCAAAAATTNTCAAGGACTTTTCTAAAAATTTTTTTAGCATAACTGTT
TCCTCTAACTTAACTTCTCTTAAGTGAACCTGTCTTTCCACTGGGATGACTGTCTACAT
GCTCAGGAATCCTGAATTCATGACTATGTTCAACTCCCACGACCATTTTTAAATCATCAA
AATGGCAGCAAATGTCATTACCTGGACCAAAAAGCTGCAGGTTTTGTGGCAAATGGGAAA
TGTGTTATAGAATATGACTGGGAAAGAGGGATTTCTTAGTGCTGCCCAGAATTAATTCAG
CAAACACTGAACATTACTACGTGCCACATATAGGANCATACTGCATTTTGAAGCG

Sequence 3746

GNCGAGGCACTAAATAATTTGATCATGGCATTGCNCACATTNTTTTNTAANCGGAGAGTG
AATATTTTATTNGNNGATGTATTCTTCACTTATTAATGATGAGGTCAATGAACTGATGCA
NTTATTAAAAA
AAAAAACCAACGTCCATTCTNATTCNGAATCTGCNGACTGGAGGGAANCCAGTGGTCAC
AATNCCACCATCAAATAANAANCAAC

Table 1

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Sequence 3747

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNTCCGNNNANANTN
AANNCCNGGATAAACAGGTTTCGNAANGCCNGATGGNGAGAATAGAGCTCGCTTCCTTCC
AGGGAAAGATCTGACCGAAAAAGAAATGATCCAAAAATTAGACAAGCTGGAAC TACAAC T
GGCCAAGAAGGAGGAGAAGCTGCTGGAGAAGGATTTTCATCTATGAGCAGGTCTCCAGGCT
CACAGACAGGCTCTGCAGCAAAACTCAGGGCTGCAAGCAGGACACACTGCTCTTAGCCAA
GAAGATGAATGGCTATCAAAGAAGGATCAAAAATGCAACTGAGAAAATGATGGCTTTTGT
TGCTGAGCTGTCCATGAAACAAGCCCTAACCATTTGAAC TCCAAAAGGGAAGTCGGGGAGA
AAGAAGACTTCATCTTCACTTGCAATTCCA

Sequence 3748

TNCATTNCAACTTATAAAACGTCCANTTTTNNNTNAAAGGAGAAATTATGGCACCNNGNC
TTTNCNNNTTCTATCAGNGCGANGATAAANGATTATGATTCAAAC TACATTTCTCTTTTC
TAGGCTNNGNCCCANAAAAANNTGNGCAGTTTTTCAACATTAGAATTCTTAATTCTATNG
GAAACAAAACAAAACAAAACAAAACAAAACAAAACCAAACCAAGGCAACAA
ATCTATTGGGANATTGNTTACGAACAAAGNCCAC

Sequence 3749

NATTTAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTNCGCGGGCAACCATCAAGCAGCT
CNTTTNCCCAGCACTTCTACCTGAATTTACCATCACCAACCTACCATATTCCCAGGACA
AAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCA
ACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACAT
TCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAAC TCTCGCCAC
TGGCTCGGAGAGTAGACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATG
GTACCT

Sequence 3750

CGAATTGTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTNCGTGTCAC TTTNNGTATCT
CATTTTTTNGTAGCCATGNGCATAGCTAAAAATGGGTTTAGTGAGTGGGTAAC TAANGAG
ATAGAAAGGGAGAAAGGATATTGGGAGGAATCGTAGTCTTTGCTACAAGGTAATACCGTA
TAATTTTTTTAATGATAAAGTCGTATAAGTAAGGGTCAAAAGTCACTTG TAGCTAACTTT
CATTAGTTCACCTTTTCTTGCCTAGCACAGTTAGCATGGTCTTGGNATCTAGNGNAAA
TCTGATCTTATCCAAACATGAANTTGTTACTTTTTA

Sequence 3751

GANCGCCCCGGCGGCCGCCCGGGCAGNTACAGATNNAGATGAAAANCACCAGAATGTAGNN
CNNCTAGGCNNANATCTTTGGNNGGAGAGTCGGGGNNACACCNGANNGGCCAGGGCGAAC
NTCNAACCTCAAGNGANCCACCCGCCNCAGCCTCCCAAAGGGANAGGAACACAGGCATGA
GCCACCGNGCCCACTGAGAATTAAAAACACTTTATGNAAGNNAANTNTTTANGAAAGNNA
TCTAGCTNTGCCAGACCAAGTNTGGNAGNAAAGGGAAAACANNAAAAAAGNNGGAANCCT
CCAAAANCTGGGGCNCNAANNAAAGAAANNNAAGGNNGAACCNNNGGNNCAGNCNANCA
ANCCTTNAANAAAAAAAANGGCAAGGGCTTTNCCAAAAGNGAAACGGGAAACAAGANNC
ANGGGAAAAAGNAA

Sequence 3752

GGCCGCCCGGGCAGGTTCGGCACAGAGGNTGACTTNGCTGTTTTTNCTTCTACCAAGCTG
GCCCGGATAGAAGAACCAAAGAGAGTGCTGCTCTACGTTCGAAAGGAGTCAGAAGAAGTC
TTTGATGCCCTGATGCTCAAAACCCCATCTTTGAAGGGCTTGATGGAAGCTATCTCAGAC
AAATACGATGTTCCCATGACAAGATTGGGAAAATATTCAAGAAGTGTA AAAAGGGGATC
CTGGTGAACATGGACGACAACATTGTGAAGCATTACTCCAATGAGGACACCTTCCAGCTG
CAGATTGAAGAAGCCGGGGGGTCTTACAAGCTCACCTGACGGAGATCTAAAGGCCTGCG
GGCCACAGCTCCCCANGAGTTCAGTGCAGGNGTTTCTAGATCTTACGGTTTGGCAACTGC
AGGTAAC

Sequence 3753

CATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCCAC
TGCAGTCTGGTTGATGGCTTTGGCCTTGAGGCTAGGTGCAGGTGGGCGAATCCCTCTGGT
CATAACATGCTCAAATGCCAGAGGGCTATCCCCAAGTCAGTCTTGGCCCAGGCAGAAAT
CTCATAGGATGTATGAGCTGTCAGATTGCCAACTTTGTGTGACAATATGCTTCCTCGGAA
GTTCAAAGTTCTCCTCTCTTGCTTGTGGGTGTCAAATGCCCAGAAAAGGTTCAACACATA
GCCATTACCTGCCGAGAACCAAGAAGCATGTTAGATGAACAGGCTAGTCATGGGGCACA
CTAAATACAAAAGGCAGGATTAAAAATACACCTCTTTTCTTGGGTATCTC
ATTTTTACAGTAACAGGTTGGTTTTTTAAAAA

Table 1

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Sequence 3754

CCGCGGTGGCGGCCCGCCGGGCAAGGTACTCAGTTTGGTCTTCTTTCAGGTGTAGGATAA
CTTTTGTTCACGACCCATAGGTTACCTGCAAGAGAAGAAAGAAAAATTGACTTAATAA
TACATTCAATTTAGTGCCCAACGCCATGCCTAACACCCTTATAACGTGTCTATAAAGCAA
GGTTTGCCGTTACTACAGATGCAAAGGCCACCACAGCAGAACCTTTTGGGCAAGGTGCCT
CGCCCAAAGAACC GCCCACCAAGTCATGCCATTACACTAATTAAGTGCTCTAGCTTGTT
CCCGATCGTTGGGCAAACACAAATTCTGTAGGCTTCACCGCATCCCCAGGGGTCCAAGGG
TTGCAGCACCCACCTTCCACCGCTCACTTAACCA

Sequence 3755

CCGGNCAGGTACGATCTTGGCTCACTGNAACCTCTCCCTCCCGGGTTCAAGTGATTCTCG
TGCCTCAGCCTNTTGAGTAGCTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTT
TNCATTTTTTAGTATGAGATGGGGTTATCACCATGTTGGCCATGGCTGATCTCAAACCTCC
TGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGTGCTTGGGGTATTACAGGNCGTT
GAGCACACNCGCGCCTCATGCTCTACAAAGNCAATTTTTTTTTTAANAAAAACTNGACNNCC
CTTATTTACTGNATAAAAACTTCTCTTGNTTTAAAAAATTCTCTTATTTTTTACCTAATT
TTTTAAAAAGGATTAAAGGTNTTTAATTTTTTTTTTTTTTTTTTAANTNANCAAANTANTN
TTTCTTNGNTTTAATTTGGGATTAAAAAATTTTTTAAAGGGNCNATTTTTTTTCATTTNG
CCNCTTTTTTGGCNANNAATTTTAACTTCCANTNAACCTTAACCCNTAANACCAATGGG
GAAANAGGNAAAGGGGTTTTTTAAATTTATTTTTTCAANAATTGGGGGATTNATTTTTTNA
TNTTCTAAAAAAATTAATA

Sequence 3756

CCGGGCAGGTACCGCGGGGGTGCTGGGTGGAAAAGGCTTTTTTAGTTATTGGCTAATTACT
TGAAAAGNCATCAAGAGTNCATATACTAGACCTGTCTTGGANCAAATTTTTATCTTTT
TNCAAANATACCTTTGATGGNTTATTTTCATGNGAGTACCTTTGCTGAAGCAGCTTNGTGA
TCATATTTNNGTTTATGTAACCCANTCCATNTTGGNATACNTTGGCNCCCTGCCAAAAAG
GTTTCAAACNTTTTNCCCNATATTATTAACATTTATTTTNGTCTAGCNNTGNATATTCTAT
TTGGGNAAACTTGGCTTTAACNAATTCTTACCATCTCATCCCATTNCCNCCAAGTAAATT
AGGGGAAACCAANTTTATTTTAAAAAGAAATTATATTGGCNACCGG

Sequence 3757

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTT
TTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNAAAAAAANNCNTTTNNNANTTTAA
AAAANNCNNNTTNTTTTTATNCNNAANACCNTNNNANNNNAANNNTTTNNNGGGNNGNGA
CNNNACCNCCCNTTNAAAANTTGNANAANAGNCCCTTTTTTNCGGGNNGGNTTTNNNNN
AAAAAACNNTNGGGGNGGGNNGTTTTTCCNGGGGGGGGAGTTTTTTTNGGGGGAAAT
TTTAACCGCCNCAACCNCAAAAAGGGNGAGAAAAAAGGGAACCTNGAATNTTNCCCCC
NGGGGGGNCCNCTTTNAAAAAANGNCCNCAAAAANGGGNCCNCAANCCCCAAAAANNN
GCCCCCGGGGGGGGTATNAAAAAAGNCCCCCCCCCAAAAAA

Sequence 3758

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAGAGAGTATTTCAAAGTGGA
AATAAATAGGTTGAAACTGTTGAGAGGTCTAATTAGATGAGAACTAAACATCCTTTGGA
TTTGGTAAACAGAGTTACAACCTGCATTTTTATTGAAATGAAATGCTTAATTGAGAGTGT
ATATAAATCTTAGGTAAAGATGGCAAATTGAACTCATGCATCTAATTTTGCTTGTTCTCT
GATGCCTCTCTTATACGATAAACAGATTTTTTTAATGGAGTCTCGCTCTGTCACCCAGGC
TGGAGTGCACCATCTCAGCTCACTGCAGCCTCCGCCTCCTGGGTTCAAGTGATT

Sequence 3759

ACAGTTTTCCCTCAGTTTTTTTTCCCTTCCTTACCCCTACCCCATCAAATACAGCCCAA
CCAAATAACTGTGTTCTTAATTTAAAGGAAAATGGCAGACTTGATACCTGCTGAATATTT
CGTGTAGACAGAGTATGACAATGAATGAGATCCCCAGTCATTGCCCTTGTAAGCCTGGGC
ACAAGAGCAAACTCAGTCTCAAAAAACAAAACAAAAACCTGTTGGTATAGTACCT

Sequence 3760

AATNACGNACTCACTTATNNNGGGNNGNNGGGNNNCCCGGGNNAANNTATTTNGGGGGGG
NNNNANANNCCCTTTNNCCCCCAACCCCCCGGNCCGGGGGTGGGGCCGGGGCCCCGCC
CCGGGCCAGGGNACCTNNNNNTTTTTTTTTTNNNTTTTTTTTTNNNNNTATAAGGGAA
AGAACCTTTGAAAAAGGGGGGTGGTTAAGGGNTCCAGANGGAAAAA

Sequence 3761

AGGTACTAACAGGGTGTCTGGTCTTAGAAGCCTCCCTTCAGATCCCAGCTGACCCTGGTG

Table 1

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ACTGCCTGGCCTTGATGTTGGCTGCAGCCTTCTGATAGAACCACATGGATTCCACCCACA
GCTGGCCAGGCTTGTTACATGGGTCAGGGAATACAAATGGCCCCCCCCAGGGAGCAGGTG
TTGGCCTCAGTTTTTCAGGGACCCTTGGTGTGCTCCTTACCTAGAGCCCATTAACTTACC
CCATCAACTCTCTGCCATGAAAGCCATCTTCCAGGAGCCCTGTTTTTTGGAGCTGAACTG
CACAGATTATAGCTGCTATTGTACCTGCCCC

Sequence 3762

TGTCCCTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAATCCGCCTGAGCAGTGG
CCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAGTGTGTTTATGGGAGTTGTGCACATGC
TCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTCCTAGAGGAAGGTCATAGACTAAT
AGTCTAATAGTCTATGACCTTTAGTCATACTAGTGCACATGCCTGAGCCCACTCACCTGT
GAACCCCCAAAATTTGAGACAGGTCTCAATTAATTTAGAAAGTTTATTTTGCCAAGGTG
AAGACATGCCCAGTGACATAGCCTCAAGAAGTCCTGATGACATGTGCCCAAGGTGGTCCG
GCC

Sequence 3763

CCGGGCAGAACTGGAAAAGGCCTTTGCAGGGACAGAGACGGAGAAGGCTCTTCGGTCGCG
TTTGGAAGCAAGCTTTCAGAGATGAAGAAGATGCACGAGGGGGACTTGGCGATGGCTCT
GGTCTTGATGAGAAAGACAGACTGATTGAGGAGTTGAAGCTGTCTTTGAAGAGCAAAGA
AGCTTTAATTCAAGTGCCTTAAAGAGGAGAAATCTCAGATGGCATGTCCTGATGAGAATGT
GTCATCTGGAGAGCTCCGAGGACTTTGTGCTGCTCCAAGGGAAGAAAAGGAGAGAGAAAC
TGAGGCTGCACAAATGGAGCATCAGAAGGAGAGAAACAGCTTTCAGAGAGGATCCAGGC

Sequence 3764

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNNAGGNCTTCTTTATTTTCTTTNA
ATAATGTTTTATCATTTTCAACATATATATTGGATGGGGTCTTTTGTTAAATTTATTTCT
AAGTAGTTTATAAATTTGCTTCTATAAATTAATTTTAAAAATTAATGTTTTATTTTGGGG
CTTACTCTCTCCATGATTTTCTGCTAATCTTCTTGCTGCTCTGCCAATCTCATATTGTAT
CCTCTGACACTTTAAGCTAGTAAGGCTGCAGATTTTGGCC

Sequence 3765

AAACCACCGCGGNGGCGGCCCGCCGGGCAGGNACAGTAATTNNGGGGGNTTAAAAACCCG
GNCCAAAGGAGGACNGCAGGGNAGAGAAGCAAGTTNAGNNGGCGCCGGGGNAGGAANCGA
CANAGCCNGCANGNGCAGNANGGCNGNGAAGGGGC

Sequence 3766

CCGGAACTTTCCAACCTTTNTTNAGGGGGGNCCGNAANTTTGGGGAAAGCCTTTCCCCAC
CCCCCGGCCGGGGTTTGGGGGGGNCCCGGGGNCCCCCGGCCCCCCCCGGGGGGGGCC
CCCAAGGGGGTTAAACCCTTTTTTTTCTTTTTTTNTTTGGGGGGGGCCCTTTTTTCCNA
ANANTTTTTTTCCCCCCTTCCCCNAATTTTTTNNGGGGGGGGAAAAAAAAAANNTTNGG
GGNAAAAAAAAA

Sequence 3767

GNACCCACCGCGGGGGCGGCCGAGGAACGCNGCNNTTTNNNTAGCGGGNTGCGAAAACCC
NCCCCCGGAAAACACGTGANAGGCCNGGAGCGAACCTTAAAGGGGCGCCACANGAGCGCC
CCATCTCACCTCAATTAACCTACANGGACAAACACAACCACAAAGGGGAGACAAGNGACCA
GGAAGAGAGAGCCAAAAAGCTAANNNGNCACCNACNNNGAAANGGAGAAAGGGGACCCNA
GGGGAANAGCACCGCANGAANCCAGGGAAAAGCNGNNGGANATNNGGAAAGAGNCAGAG
AAAGGANGCNANNANANAAGACACCANGAGGCCCCAGCCGANGNNNNACANCCAGGCN
AACAAACGGGCCCCCAAAAACAAGGC

Sequence 3768

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTGACATGTGAAGTGTGAGATGCTCGTGGGATATCCAGCAAAGGTGAAAGGTA
GGTGGTTGGACAGGAGTCTGGAGCTCAGGGAGCCATCAGCATGGTGACCCATGTGGACAA
GCTTAACCTCGGTGATTTCACTGAAAGTCCCGGGACTGGGCGGCGTGATTGCCAGGGCAT
GGGCTCTCAGNNGGTATCATACTGCCCCCTAGGGGCTACCAGAACTGCAGTCTATTTTGT
GNGGTCAGTAATACGGNGCTACTGGCATTGGAAGGAAGGGATCAGGGAGGGACTCTTAGA
TGTCCTGCAGTCTCCTTCGTAATGGAGAGGTACTNTAAATCCTGGGACTTTCAAAGCCC
TGAATAACATTATGTANATAAGAAAAATCT

Sequence 3769

AGGTACCAAAACAGAAAGAGGGTTTAAAAAACAGCTGCACAAACCAGAACACCCGATTCA
GAATCTTTTCTCCCTCTTGAGTTTTTGTAAATACTTTATTATTGATTTTTTGCTTTTTTT
CTCCCTTTCCCTCCAGGAGAAGACATTTGGGTCTTGGCCTGAGGCAGGGGTGTTGAGCG

Table 1

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ATGATGCTCTGATATGGAGCTGTCACTCTAGAGCTCGGCCAGATGGAAGACACTATAGAA
CCAGGTGGACAGATTTGGGGTCAGGGTTGGAGGCTGAGTTCTTTTGAGGACTGGTTGGA
GTGGCAGCCAGATGGTGGCTGCTGACAAGGCAAGAGGAATTCAGAGATTAAACATTGTC
Sequence 3770

TACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTTTG
CCACAAGAGTATACGGAACAAAGGAGACAGGCTCATTTATAATCTGACGCGGCCACCCTC
CTGCTGCGTTCGGTTTCCATTGGCTGGGACGGGACCTCACCTTCTGTATTTGTCCCGACT
GGCTAGCACTTAGAACTTTTAAAGAGGCAAAGGCATAGGAGAACAAGGAAGGAGGAA
GTAACCTGTGGAATATTGAGAAAGGTAAAAACACCTTTAAATAAGGAAGAGGAACAGGCT
ATGACCTAATGCTTGTGTTGGATCAAGTATAAGCCATGTTAGGGCAAATATTTAGGCTAAA
ATTGTGGGAGCTAAGAACATAAAGTATATTTGATTTTTTATTATGGCTAGCAGATATTTA
AGA

Sequence 3771

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGNACAACGGNTATGCT
TNGAAGGCCAAANGGANCTGGTNTNTAATNCTTATTCCTCTCCNNACTAGTTTTGNGACC
TANGGAAATTTTGCAATCTTNNTGAGATTTGTTGTCTCATCAGGAACAGGNTGCTACCTA
AGNNACAGGATAGNTGNTAGATTNAAATNTGATCGCATGGC

Sequence 3772

AGGTACGTTCTTGAGACATGGGTGTGTCTGTAGACTAATCCTTATTCTCCAATTATTGA
GTATAATATCTCTTGTTTAACATGAGGAAAGGGTCAAATTTGAGGAAAAATGGCCTCTTG
TTTGATGTGTTTTAGTTCATTATTCTCTTCTATTAAGAGAAATTCAGTTAAAAAATTG
TTTCCCATTTCCGTATCTGAAATAATGACTGTAGTTGAGGTGATCTTGCCCTGGGTCTGA
AATCATACTTCCAAACCAAAAAGGACTTTGAATACAAAACCTTTAAGAAATCTTGATGA
ATACAAGCTATATCTGAAAAATTGTGTTTTATAATATTGATGCCAGTTTTGCC

Sequence 3773

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTATTTTTAGNAGAGACGGGATTTCACTGT
ATTAGCCAGGATGGTCTCAATCTCCTGACCTCATGATCCACCTGCCTTGGCCTCCCAAAG
TGCTGGGATTACAGGCATGAGCCACTGCGCCAGCCGAGTCATTTTTTAATACTACTGCA
TGTGAGTTAACACAATCATTCCCAAATTGAAGTTTTAGATGGGCCCTCAAATTTTTAGG
ATATGGTTTTCTTACAGGTTTATATTGAAAGTATGGGGTATCTCCTATTACTCCTCTTTT
TATTTGTCTTAAAGGAGAAAGGGAGAGGCCAGAGACCAAATGTCCCCATTTCCCTATA

Sequence 3774

CCGCGGTGGCGGCCGCGGGCAGGTACGCGGGAACAAAATGAAAGGAAAAAGCCTCCTG
TAGCCACAGAAGGAGAAAGTGCAATTTGAATTTTAAATTTATTGAAAAATCTGCAGCTGCTA
CTGAAGAAGAGAAAGATAAAAAGAAAGANCTCATGATGTAAGAAATTTGACTATACTG
CTCGAAGTTGGACTGGAAAATCTCCCAAACAATTTCTGATTGATTGGGTCAGGAAGAATC
TTCCCAAGAGTCCAAATCCTTCTTTGAAAAAGTTCCAGTAGGTAGATACTGGAAATGTA
GGGTTAGGGTAATCAAGTCTGAAGATGATGTCCTGGTAGTATGCCCTACAATCTTAACAG
AAGATGG

Sequence 3775

NGGGGAACCCACCGCGGTGGCGGCCGCGGGCAGGACTTCCTTTNGGGGGTTNNAAAA
CCCTCCNNCCNTTTTTTTTTTTTAAAAAACTACTATAGTTTATAAAAACAAAACAAGA
GCNCGTAGNGAGCANATTAGGATTACAGGCCTTCAC

Sequence 3776

CCGGGCAGGTACAGAACTGAAATTCAAATATCGAGGATAGCAAGAAAAGCTGGCAACTTC
TATGTATCTGCAGAACCCAAATTGGCGTTTGTCTCATCAGGATCGGAGGTTATCAATTGGGT
GAGCCCAAAGGTCTGAAAGGTGTTGCAACTTCTTTGCCTCATCAAATCTTCAATAGAAAC
TTTGTGAAGCTCAGCAGGGCTTCAATAATGTGCTGAGGTTTGTAGAACCATATATTGCAT
GGGCATAACCCAAATCTGAAGTCAGTAAATAAATAATCTACAAATGTGGTTATAGCAAAA
TGAATAAGAAGCTACTTGCTCCAACAGATAATACTTTGATTGCTCGATCTCTTGG

Sequence 3777

AGGTACAATCTAGTTATTCTTACAAGCAGTCAAATTCTAAAAAGGGAATAAACGAATTTT
CAGGGTATCAAGCCAAGTTTACCAAGTGGGCTTATTATATGTATTTATAATTCTTCCTAG
TATAGCCAATAATAAAATGAAAATAAGTGAAGAGAAATAAAAATGAAGGGTTAATTTTCAG
GGTAGCAATGTAATAGTTTTTTTATGCAGTTTATAAGCAAATGACATAGGCATCACCATGA
AGCTGACTTGATAAAATGAAGACCACTTATAGAAGACAGTGATTTTCAAACCCACTCCTC
AGATCCAAACAATAAGGCTCTAGCCACCACTAACTTTAAACAGAGCAGTTCCACTTGTT

Table 1

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AAAA

Sequence 3778

AGGTACCTCATCAATATGTGCATTTATTATTTGCCAATTAAAATAATATAAACTCTTTA
AAAATTAAAAACCATATATTTCCCTAGTATTTCTGGGATGATTTTTTTTCTCAATGACT
TTTGAGAATGCTTTTGCTTTGTTCTCAAACCTTTGATAATCTCCATCATTACTGGTTGGG
TATCCCTTATCTGAAATGCATGGGACCAGAAGTGTTCAGATCTCAGATTATTTTCATATT
TGAAAATATTTCCATACAGATAATGAAATATCTTAATAATGGAAACCAAGTATAAACAGG
AATTCATTTATGTTTCATACACACCTTATGCATGTAGCCTGAAGGTAATTTTATTA

Sequence 3779

AGGTACAACCTTAAATACGTCCATATATGACCAGGTTCTTCTTATGCCAAGAGTGAACCTCT
GTGCTGAATCAGTTAATGTTCTACTAAATAAAGGAAATTCACATTCGCTTTCTTGTTAGG
TTCATGCAAATATTGAAAACCTTGGAAATGAGGAAGAAGTTTGGAGAATTGAAATGTATA
TCTCCTTTGGCATAATGAGCCTTGGCTTACTTTCCCTCCTGGCAGTCACCTCTATCCCTT
CAGTGAGCAATGCTTTAACTGGAGAGAATTCAGTTTATTTCAGGTATGTGGGGTTTTGT
TTGGTGAAGGATTGTGCAGGATAGGATTTCTTGTTAAGAACAACCTGCATTTTAA

Sequence 3780

AGGTACGCGGGGTAACCACCTGGGAAAACCTTCACAGAAAATGAGAGTTTCAGATACTGAG
AATAGAACCCTAAGAAGCAGAAAAGAGAAGATATTCCTCGTGGGGGAGAACAACCGGCTG
GGAGGGGAGGAAGCATGGCCAAGGCAAAGAGGTGGGCATTAATAAGAAGTCTTCTTGCT
GCCGCCATATGAAGAAGGACGTGTTTCGCTTCCCTTCCCTCCATGATTGTAAGTTTCCTGA
GACCTCGCCAGCCATGCTGAACCTGAATACAACATGTTTAAGACCACAGAACATCTGCATA
GGCTGTAAATTTCTGTTGAATGATGGATGCAAAGATGGAAGACAGATGGATAGAGGAAAAG

Sequence 3781

CCGGNGCCAAGGTACTTCATACAACCTTAAGCCTAAACTAGATTAGATTATGTAGAAACTT
ATTCTTAGAGAATATATCGCCTTAATATTTCTTATCCTGAAAAGA

Sequence 3782

AGGTACATTTTACCCACACTAAAGAATAGGCCTGAGATGCTAATAAAGCCTCTAAGCTAT
TTTGAGGGCAGCTCAAAATCAGTGATATGGTTTGGATCTGTGTCCCCACCCAAGTCTCAT
GTTCTGTATTTCATCCCCAGTGGTGGAGGTTGGGCCTGGTGGGAGGGGATAGAATCATGGT
GGTGATTCTCATGGTTTCACATCACTCTCCTTGATGCTGTCATTGGATTAGTGAGTTCT
CCTGAGATCTGGTCTTTAAAAGTATGTGACACATCCCCCACTCTCTTCTTCTGCTCTGG
CCACGTGAAATGCTAGCTCTCCTTTTGCCTTCTCCATGACAGAAAGTT

Sequence 3783

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTCTTCTGTGAATAGCTTAACTCAG
GCCTGGGACAGTTGATCTTGAAAGAAGAGATGGANAAAGAGAGCCGGNAAAGGTCATCTN
TGTTAGCCAGTCGCTACGATTCTCCCATCAACTCAGCTTCACATATTCATCATCTAAAA
CTGCATCTCTCCCTGGCTATGGAAGAAATGGGCTTCACCGGGTAAGATTTCTCCCGATT
CATTGTTTCTGCCTTTACTCCCACCT

Sequence 3784

AGATACGCGGGAGGAGGAAAAAGTGAAGCGGCAGGAACGACTCAAGGAGGACCAGCAGAC
AGTCCTAAAGCCCCAGTTTTATGAGATCAAAGCAGGAGGAGAATTTAGAAGCTTCAAAGA
TTCTGCCACAAAGCAGAACTGATGAACAAAACCTTGAAGATCGTTTGAAAATTGAAGC
AAAAAATGGGACATTGAGTGTATCCGACACCACCGCCGGCAGCAAACAATTGACATTCAC
GTTAAAGAGGTCTGAACAGCAGAAGAAGCAACAGGAGGCTGAGAACTGCATCGACAAGA
AAGGAAAAGACTCCGTCGTT

Sequence 3785

GGGCGCGCTATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGTA
CCCAGAAAATAAGAAAGGGTTCCAAAATGAAGAATCGCTCCTTTTGCAAACCTTATGGTG
ACAAATATAATATTTATAAAAAGTGAATTAGGGTAATATGGTTAATGGGAGAAATAACA
TCATTATGGAAATGCTATCTTAAACAAAAAATAAGAGAAANTNTTAGTTTAAAAATAGAA
CTTATAGTCGATTTAAAAAACAAGACCAANCTCTTAGCTATGCACAAGAAAGTTNCTTTA
CACATTACAAATATAAANGGATGAGAAANCATGGNTTATGAAAATATGAACCGAAATAA
AGCTATAGTAGCTGTGCAAATTTTCAGACAAANTAGACATCAGAAAAGACTT

Sequence 3786

CCGGGCAGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTCTGCGGCTCACCTTGC
TGCAGTTGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGTCCATGTTCTCCAGAGA
AGCAGAACGAGTTGGATGTATGTTTTGAAGAGATTATGAGGAACCGGCTCATGTGATGA

Table 1

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AGGAGGTTGAGAGGTCCTGTGCTCTGCCATCTGCAAGCTGAAGACCTGGAAAGCTGAGGG
TGTGGCTCCAGTCTGAGTCTGAAGGCCCAAGAACCAGGGGAACCAACGGTGTAGATTCCA
GGTTGAAGGCAGGAGAAG

Sequence 3787

CCGGGCAGGTACAGGTTTGAGGAAGCGGTGAAGGAGGCTCATGCTGTAGATCAAAAGCTT
GCAGAGAAGCAGGAAGATGAAGCCACCCTGGAAAATAAATGGCCCTTCCTTGGGGTTCCT
TTGACAGTCAAGGAAGCTTTCCAGCTACAAGGAATGCCCAATTCTTCTGGACTCATGAAC
CGTCGTGATGCCATTGCCAAAACAGATGCCACTGTGGTGGCATTACTGAAGGGAGCTGGT
GCCATTCTCTTGGCATAACCAACTGTAGTGAGTTGTGTATGTGGTATGAATCCAGTAAC
AAGATCTATGGCCGATCAAACAACCCATATGATTTACAGCA

Sequence 3788

CCGGGCAGGTACATAGACTCCATTGATCTGGAGAAGATCACTGAAACCGAGGACCCTGTG
AAATTTTCATGAAGCTTGGCAGAAGCTATGCAAAGCTGATGGTATCCTTGTGCCTGGAGGC
TTTGGAAATCAGAGGAACATTGGGAAAACCTCCAGGCGATTTCTTGGGCAAGGACAAAGAAG
ATTCTTTTTCAGGGAGCTTGTCTTGGGATGCAACTAGCAGTGATAGAGTTTGCAAGAAAC
TGCCTTAACCTTGAAAGATGCTGATTCCACAGAGTTTAGGCCAAATGCCCCAGTTCTCTG
GTGATTGATATGCCCCGAGCACAACCCTGGCAATTTGG

Sequence 3789

AGGTACTACACCACTTTTCCTCACCAACCCCCATCCTATTCTTGAGTTGCAGGATACACT
TGCTCTCTGGAAGTGTGTCTTACCCTTCTGCAGAGTGAGGAGCAAGCTGTTAGAGATGC
AGCCACGG[^] ACCGTGACAACCTGCCATGTCACAAGAAAATACCTGCCAGTCA[^] CAGAGTT
TGCCTTCTGCCAGGTGGATGCCTCCATCGCTCTGGCCCTGGCCCTGGCCGTCTGTGTGA
TCTGCTCCAGCAGTGGGACCAGTTGGCCCCCTGGACTGCCCATCCTGCTGGGATGGC

Sequence 3790

CCGGGCAGGTACTTTTCTCTGAAAGGAATCTTGTCTTGTTAAACCCTAAAGAGAGTGTCC
TTAATAGCAATCAGCACTTGTAAGCTTATATACTGGTGCATTTGGTTTTCTGTTGGGTGA
ATGCGGTGTGTGGGCCGTTTGTGGATTCTGAAAGAGAAAGCCGTGTGTCTGTGCCATGA
CATTTCTATTGCACATTCTTTGTACTCAGAGGAATTTTTTTGTTTTGTCTTTTAA
GAAAGGAAAGAAAGGATGAAAAAATAAACAGAAACTCAGCTCAGGCACAATTGTCACC
AAGGAGTTAAAAGCTTC

Sequence 3791

CCGGGCAGGTACCTCATGATATGGTTTGGCTTCGTGTCCTCACCCAAATCTCATCTTGTA
GCTCCCATAATTCCCACATGTTGTAGGAGGGACCCAGTGGGAGATGACTGAGTCATGGGA
GTGGATATTTCCCATGCTTTTCTCATGATAGTGAATGGGTCTACAAGATCTGATGGTTT
TAAAAGTGGGAGTCTCCCTGCACAAGCTCTCCTTTTGCCTGCTGCCACCCACGTAAGACA
TGACTTGCTCTTCCTTGCCTTCTGCCATGACTATGAGGCCTCCCCAGCCATGTAGAACTG
TAAGTCCAATTATACCTCTTTCTTTT

Sequence 3792

CCGGGCAGGTACATATTTTTTAAACTGGTTAGCGATAGCTACATGACCCAATTATATTT
TCTATATTTATTTGATTATCAGCCAGTAAACTCATAATGAAGCAGCTGCGCACTCCCCCA
ACAATTGAGAATTGAACAAATTTCCAGAGAGAAGTGAAAAATATCAAAAATTAAAATCCT
AAACTTGAAGACAAGTTGAGAGACCATTAGTCTGGCCACCTGTATCCAAGATTCATTTA
AAACCAAGCAGCGGCCAGGCACCGATGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGC
CGAGGCGGGCGGATCAC

Sequence 3793

CCGGGCAGGTACGCGGGATTCCAGGGCAAAACACATTGTCCTAATGAAGTTGTTGCAGCT
CTCTTCGTTTTCTTGTGCCGCTGGAATTGGCTTGTGGGTCACTTGTGTGCAAAAGTGAA
TTAATTTCAAATAGGAATCATATTGCTTTTGTGAAACAAAGAAAATTTACCACCTTGCT
GATACATAGATTGGAAGGCGCTCTTGGTAAAGAATAACCCACAAACACCTGATCTTGATT
GGAAAGCATTGTAGGTCATTAGGGAAAACCTGATGATGCTGACTGTTGCTCCAGCTGTGTT
GGCAATTCAAGATGACCTTGTTACTAACTGAAAGTT

Sequence 3794

CCGGGCAGGTACAGCAATGACTTCAGTAAGCCAGGCATCCTTGGATGTCTCCATGATAAT
AATTATTTCTTTAGGAGCAATTTGTGCAGTGTTGCTGGTTATTATTGGTGCTATTTGCAA
CTAGGTGTAACCGCGAGAAGAAAGACACTAGATCCTATAACTGCAGGGTGGCCGAATCAA
CTTACCAGCACCACCCAAAAGGCCATCCCGGCAGATTCA

Sequence 3795

Table 1

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AGGTACATATATCCACCATTTCTGGTGCTCTTCATTTTCATCCTGTGGATTACAGGTTACCA
TCTGGTGTCAATTTATTTTCTGTGTGAAGGATTTAGTATTTCTTGTAAAGGCAGACGTCCAT
AGGCAACAAATTGTCTTAGTATTTGTCTGGGAATGTCTTTAATTTCACTTTTTTTTCCAAC
TTTCAACAAAAGCTTCATATCCTGGTGATGTCTTTGTATATAAGGAAAAAAAAATCCCTAA
ATCCAGCCTTCAAATTGAAGTAACCTATCTTTAATGTGAGAGCAATCCTATTCACAAAGCC
CCTCCCCAGAGTCAATCAAGGGTTTGGGGACCACATCT

Sequence 3796

AGGTGTGATGTTTGCCCCACAACAGGGGTCATTTGGCAATGTCTGGAGACATTTTTTATTG
TTATAGCTGAACAGGAAAGTGCTACTGGCATCTGGGAGGAGGCTGCTAAACATCTCACAA
TGTGTTACCCCGTCCCAAATGTCAGTCGTGTTGAGGCTGAGAAACATGGTTTAAATGAGT
CAGAGGCTGGCCACAGTGGCACGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGCGGTGGG
AGGATTGCCTTAACCCAGGAGTTCAAGACTAGACTGGGTGATATAGCAAGACCTCTGTCT
CAAATAAGAAGTAAAAAATAAATGAATCAGAGACTAGTAAATCTACCTC

Sequence 3797

AGGTACGCGGGGCCCTTGCTCACTAGAAAGGAGCCCCCTGACCCCTTCTTCCAAAAATACT
TTTTGTCTTTGTCTTCGTTTCTGCATTCATCCCCCTTCGTTCACTCCCATAACAACCAAC
AGCGACAACCTGGCACCTAGGACAGGGACGTGAGTGAAGGTCTGCTGGAGCAGAGAACTG
ACACTGACAAGAAGAACGAGAATGAGAAACCCTGCGACGAGTCTGCTGACAGCTGATATA
AGTCTGCAAAATCAGCTGGACCACCAACGGCAATTGAGAGCTGCACAACCTGCAATTAC
CTTTATTCAATTAATGCAAAA

Sequence 3798

AGGTACTGTCCAAAGAAAGTCTGGGAAGAACTCACAACTCTGTGGAATCTTCTACTCC
ATCAGGCCCTTGGGGAGGACTTTGCCTTAATTAGTTCTGTGAGCTCCGTCACATAATGCAG
CTGCTCCAGGGCCTGGTGGTTGATGGTGCTCATGCTGTTGTAGACAAAGGTGCTGCACAG
GAGCACAGCCAGGGCAAAGATCCAGGAGTCATTCTTAGGGTCACCCTGCTCTATAGCACC
GCAGGTCCAAGAACAGTTTTTCAGTTGCCTCACTCACCTCTTGTTTTCTTTCTCTCCCCG
CGTCCTGCCCCG

Sequence 3799

CCGGGCAGGTACATTTCTTGTTAACCACGTTATTAAACTTGATCAGCATGTAAGCTTTC
TTCTGTTAGATCTTTTGGCAGCAAACAACCTTCCCCCAAGCCTCTGAATTTTGGAGGAG
GGTAGGCTTGATGAATTGTTTANAAATTTTGTGTTTGGNGGTGGCAGGAGGGGAGGGATC
ATGCGGCCTTCTGG

Sequence 3800

CCGGGCAGGTACTTGNACACNTTTTACAAA
TTTAATTTTAAAGCATGTTNCAGTTNTTAAAAAGACAAACCATTATTCACCTTCNTTGCTG
CGGCACCCTTTTTGGGCCAGGTTTTGTAACTTTNAAACATCAAAAAGGGTAGNGCATCAA
TTTTAACTAAAAAATCAGTAGGGCCNAATATATTANCTNNGGGCANAAAANTTCTTTTTT
TTAAANANATCCAAATNCACCATATTTTTACTNTTATNAAATAATGGTTTNAANAANA
ATCATCACAATGTTTANCNACATAATCCNANATCTGGGATAAANAATGGGGATANNCGA
AATTTTAAAAATTCCC

Sequence 3801

ACTT
TTTTTTNTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTNANTNAAANAATTTTTTTTTTCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAANCNAAATTTNCCCAAAAAAAAAAAGGGGGGGC
NNAAAAAAAAAAAAAAAAAAAAANCCCCCCCCCCCCCTTTTTTTTTNTNAAAAAAAAAAAA
AAAAANAACCCCNCCANNNNNNAAAAANNAAAAAAACCCNANNNNNNGACNGTAAAN
AAAAAAAGGGGGNAAAAANNANNAAAAAANNAAAAAAAGNANCCCNCCCCCNTAAAAAA
ACCCCCCCCCNNNTNNAATNAACCCCCCCCCCAANAAAAAANCCCCCCCCCNAA
AAAAAAAAAAAAANCCCCCNNGNAAAAAAAAAAAAAAAAAAAAA

Sequence 3802

AGGTACTTT
TT
TTTTTTTNAAAAAACCCCGNANNCCGGGNCNNNAAAAAAAAAGGNACCCCCCNGGNNG
GANNAAATNAAAAAAANTNAATAAACCCCCCNCCCGNNGGGGGNCCCNNNCCNAA
NTTTTNNNCCCTNAAANNNNGGAAAAANNNCCCCCNGGGAAAAAAAANGAAAAANNNNT
NCCNGGGNAAAAATGNNAACCCCAAAAAAATCCNAAAAAANNGNNGGNAAAAAAA
AGGAAANCCNGGGGGNCCNAAAGGGGGGNCCAACCCAAAAAAGGGGGGNCCCN

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NCCCCCTTTNAAAAAGNAAAANCCGGGGGGCCNANNNAAAAAAAAAAACCCCCACCCNC
CGGGAAAGGGG

Sequence 3803

CCGGGCAGGTACCAAGCCTCAAATACTTGAAGTAGAAGCCATCTCTTAAAGTTAAAAGT
AAGAAGCTCCAGGAAAAATAAAGATTGCATAGTAAAAAGGGATAGATGGCAGGATTAATT
CAACTCAACAAATATTTATCAAATGTCTACTCTGGTCAGGTGCTGTGTTAGCAGCCAGCT
TCCCTAAAGGGAGGAAAGGCTAGACACGAGGACATTGAGGATTGTTTATTTAAAGTCACT
CATAGGCATGCCATAATGGATTTATTAAGGGGAAATTGGGGTTTCTGTGAATCTTTACAG
GACATAGCCATGGAGACAATCACTATGTTAAGTAAGTTGCTGTTTTCCCA

Sequence 3804

CCGCGGTGGCGGCCGAGGTCAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGACC
AAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAGGGGGAAGGGGGGGCACGAAGGC
TCATCATTCAAAATTAAAAACAAAATTAAAAAANGTTTTTAANGGCGNAAGAATTTAAA
AAAAAAAANTTTTTTTGGCCTTTTTTANNCCTTAANNTTTTTNACCCCNAAAAAGGGCCAA
TTGGGCTTTTTTTTAAATTTTTTCCCCCCTTTNNGNGGNGGGGGAACCTTTTTTGGGGGN
AAAAAAGGGNAAAATTTGGGGGGGCCCANTTTTTTTTTCCCCCNTTTAAAAA

Sequence 3805

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGNCTTTGAGACAGTCTCACTCTGTGCGC
CCAGGCTGGAGTGCAGTGGCACCATCTCATCTCACTGCAACCTCTGCCTCCCGGGTTCAA
GTGATTCTCATGCCTCAGCCTTCCGAGTAGCTGGGACTACAGGCATGCACCACCACACCC
ACTAATTTTTTGTATTTTTTAGTANAGACGGTGTTTTGTCTTGTTGCCCAGGCTGGTCTCA
AACTCCTGAGCTCAAGTGATCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCT
TCTGAACCACCATGCCCAGCCTAGAAGGNGGGTTTTCTTTCTTTTACCTGAGGTCCTCCC
AGCCTGTCTTTGCTATAGACTCAGGTATCAGATCAGCTAGCCCCCTGTGAGTATTAACAAA
ATAAGACTGCCAATCTTATTCGAGTTCATAGGCTCTGAGTGAAATGTATATGGGCTTCAA
GGGACACGTCCAGGGCCTTAAAGACCTTTNTTTCCTGAGGATGTTTTNTGGA

Sequence 3806

CCGGGCAGGTACATGGCGAAGCTAGAGACTGTAACCTGAAGATTGGGACAAATTAAAGAA
AAAAATGTGATTTAACACAATTACAAAACTGTTACGTTAGGGTCAAACAAGAACCATTT
TATGAAACTGAATTACAACAAATGACATTATATCTAACTCTTCCGGGTCTCCACAGCACT
TATACTTACTTAAGCAGCTTAAACACTTCCGAGTCTCCACAGCACTCTGATACTTACTTA
AACAGCTCTTTTAACCTGCCCTAGTATTCTTAAGTGCAGCATATCTAATTTTTTTTTTCC
TCAGTAGTTTGAACACTTGCTGGCTATTTTTTCTGTCCAAGTTCTCAGTAACTTCGGCCT
GTGTAGTCAGTGGTTCTACACAGCCGACACTACTTCTTACATAACACTTGGTCTCTCTGG
CTTCTGGAAGGGCGAGGGGTACCTTCCGGAGTCCAGNGCTCTTTCGGCACTTCTGCAA
CCAGGCAGTGGTAAAAGGGGTGCT

Sequence 3807

GGGGCCGGGAAATATTTGGGGGGAANAACCTTTCCCCCACC

Sequence 3808

CCGGGCAGGTACGCGGAATGTGGTTAAACTAGAAATGAAGCTTGAAGCTTTGACT
AGCAAGGCTCCTTTGCAGGAGCTGGTCTTAGGTATGCGCGGTAAGGAGAGTGTGATGGAG
ATTTACACCTTCGAGCCTCTTTCAATGGCTTTGTTTTCTCTCTCATTCCTTCCCTACTGTG
ACATTCTACAGTTAAGGTTATGGAAGAAAAGCGAAGTTGAAAAGACTTTTGTGAGTATTT
TGGGAAAGCTGAAACCCCTATTTAGTGCCAAGATAAACAAGACAGAGGAGCTAGATTGC
AACATTCTCTCACTTGCAGTAGCAGAGAATCCTGCAAGTGAATCTCAGTTCAAAATGTGA
AAAAAAAAAAAAAAAAAGTACCT

Sequence 3809

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TGAATTACTTCAAATGTTGTTCTACAGTGATTGTGCAATGGAATGAATTGGGTCCTTGCA
AAATTCATATATTGAAGCCCTAACCCCAAATGTAATTGTTTTTGCTGTAAGGAAGTAATT
CATATTAAATGAGCTGAGAAGGTGGGGTCTGATCTGATAGGATTCTTGTCTTATAAGA
AGAGCCACCAGAGAGGGGCCACCTGCAAGCCAGGAGGAGAACCCTCACGAGAAGCAGAAC

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CCTGCCAGACCTTGATCTGAAACTTCCA

Sequence 3810

CCGGGCAGGTACTGTGTCTCATCTATATGCACTCTCTGATGGGCAAGGAGGTATGAATTA
CGACTGAAGCCCTTACCACATGCCTTACACTTATAGGGCCTCTCTCTTGTGTGGACTCTG
AGGTGAACATTAAGATCTGAATTCCGGCTGAAGCCTTTACCACACTCATCACATTTATAT
GGTTTCTCTCTGATGTGATCTCTTTGATGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA
TTTCCACACACTTCACATTTATATGGTTTTTCTCCAGTGTGAAGTCTCTGATGAGTGTGA
AGAACAGAGCTATACGCAAATCCTTTCCACACACATTGCATTTGTATGGTTTTCTCCCCCT

Sequence 3811

AGGTACGCGGGGCAGAAGAGATGGTTGTCAAGATCTTGTTCCTATTTCTGTATATGTGGG
AGAATTAGAATCACTCCTCTTATGCTCGAGCGGCCGCCCCGGGCAGGTACTTTTTTGTCT
CTTCTTTTTTCTTTTTTTAATAGCATCCCGCTCTTATTTTCTGAGTAAAAAAATTTTAAG
GTATGTTGAGTACGAATCTATAGAGCAATGAAAATGCAAGAGCAATAGCTATGGGCACCA
AATGGTCAATCTTCTTATCATAATGTTGAGTGAAGAAGCCAGGTCCACCAGACACATGC
TGCTCATTTATGCAAAGTTTGGACACAGGCAAAACAAAAGTATTTGATCGTGATGGG

Sequence 3812

CGGGCAGGTACAACCTCTCCAGGGCACAATACGTTTACAGCTGCCTTTCTTCACATACTT
TTCTAATTCAGAACTACTCACAATTCTAAGCAAATTTCCCATTCACGAAGTCTGCCCATAA
TGCGACCTTCTCTTTTTTTTAAACATATACATCTTAAAAAACAAATATATAAAAAATTTCTTA
TTTTGCTGGAATGCTTTCAATTTTTCACATTTTACATGATCATCACATTTATTTCTTATA
TTGAAAGGCATGGTTTCTGTTGACATGTCGTGCAAAGCCAAAAAAGGAGGAGGAGGAGGAGG
AGGGCTGGATTGCTTTTCAATTGGTCTAACACTTTTCTTGTCTAGGCTTTGGATTTT

Sequence 3813

AGGTACAGAGGCCGGTGGGCTCCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAAT
AGCTTATGGCCCTGTGCCAGGGACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGG
AGCTACCCCCAGGAGAAGAGTCACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCC
GTGCCTGCACCCAGCTCAGGGGAATCCAGGGGGTTCAGATGCCCAAGGAAGGAAAAGGGG
ACAGCGCTACTGCTATGGAATGAGACCACCACTTCTCCTGTTGTCCTTCCCAGCTTCTCC
CCAACCTCCCTTTTCCCTAGTTTATAAGACAGGAGAAAAGGGAGAAAGCAAAAAGCTGG

Sequence 3814

CAGGNACTT
TTTTTTTTTTTTTTTTTTTTTTTTTTNATTTAAAAAANNNNAATTTTANTTTAAAAAA
AAAAAANANANACACANAAACNAAAAAANNAAAAAAACNTGCTNACCNNN
AAAGCCCNAAAANCCAAAAAACTAAAAAAGAAAAATCTTAAATGAAA
AAAAAANGNAAACACNGNNTNNCNTAAAAACTGGGNAANNNAAAAAA
NTGNAAATTTGNNAACAACTTNAAAAAAANCCNNAAAAAA

Sequence 3815

AGGTACTTTTTTTTTTTTTTTTTTTTTTTNGGNATTATAATTTTATGGCATTTTATAAAT
TTACCAATTTTCTTCTGGGGTTTTTCTTTTTTTTCTTTTTTTTTTTGTAGACACAGAGTC
TCTCTATATTGCCAGGCTGGTCAGGAACCTCATGGCTCAAGTAATCGTCCCACCTAGGC
CTCCAAAGNGACTGAGTATTTTGGTCATACTTAGGCCTGTTAAACCAAACTATACAAA
TTTTTCTGCAATTTCTTTAAGAACTTTCATATATTCATATTTAGTATTTGACTCATTTG
GAGTTTAATTTCTCAGAAATAAGGTAGAAACCAACCTGGGTGTTTTCTCAGTTTTC

Sequence 3816

CATCTTGGGTCATCGATGAGCCTCGCCCTGTGCCTGGTCCCGCTTGTGAGGGAAGGACAT
TAGAAAATGAATTGATGTGTTCTTAAAGGATGGGCAGGAAAACAGATCCTGNTGTGGAT
ATTTATTTGAACGGGGATTACAGATTTTGAAGTGAAGTCCACAAAGTGGGGCATTTACCA
ATGAGAAGNGAAAACAGACGAGAAAATCTTTGGATGGGCTTCACAAGACATGGCAACAAA
CAAAAATGGGAATTACTGTGATGGACTTTGAGGGNCAGCCCAAAGNCTGGGNGAGGGAGN
ATAACCCACGGGGGGCAGNAGGGGTCCAAGGNATTTCTGGGCCCCCTGNCTTGCCTTAAA
ACTGTGGCCGTTTTTCATNAAACNAAAATCATTTTATATNTTCTTAACCCCTCAAAAAA
CAAAAGGCTTGTGTTAATTATTCCTNGATCTTCTTAACGGGTTTCCCTTTTTTNGGGGC
CCCAACAATTTCTTTCCCAATATTATTTCCAGGCCCACTTCAATTTTTTTTAAA

Sequence 3817

CCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCC
AAGAAAACGTTTTTATGGAAAACACTANTATGCCAGAAGGCACCATCTTTGAAAACACAA
ACTACAATNATTTTCTGAGGCAGNTTCCCACTNGGACTGCNTTCAANTTANAGCCAACT

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GTAAACAACTGANACAAAATGGGAATACAACAACGNGGGCACTGACCTGTCCCCGNG
CCCAAAGCTTNAGTTACCCATTGNTNTCATCCCCAGGGGATCAGTTNGAAATTCCGNT
Sequence 3818

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCATGAGA
AATTGTAGACTTTACTCCTATATTCTCTTTCCAAGCCCTAGGATTAGCCATTTTCCAAG
AAATGTTGCATACCATTCTGCTATGAAAGGAACCAAACTCAAATCTTGATTCTGGGTGT
ATTTTTTGTAAATTTTGTCTCTTTCTTGTAAGACCTCTCAGGTAATGACTCTAGGAGG
TATGTGTTGTGTATTAACCCATATATACACACACATATAAACTTTTTATTAAATTTTAT
ACCTATATTATGCTAAACTTGGAATATATTGACACATCTGCCCTAAGTTAATACCACAT
GGAATGTTTATTACCTACCTTCTATTCTGCCCCTAACCTCGCACTCCAACCGTGA
Sequence 3819

CCGCGGTGGCGGCCGCCGGGCAGGTACTTGGAGTTTCCTTGTAAGTAGTAAGCATAGAGT
TTGATGATAAGTAAACGTCCCTTAACAAAAACCTCANCCTTATTACTATCCCATTAATAA
ACAGCAAATACTTACTGAGTTNTTGTAAGAGCTAATGNCATTGTAAGATTTAAACTAAG
GGCTTTTATCACTTTGCAAATTATTTTTTAAANGCATTCACTATTNGACAGTGTTCTCTC
ATTNCTTAAATGCGAGTCATCTTNCAAAAGAGTTGGTTTAACTGCCCTAACATTTTC
GGGAAGNATGCNNGGTTTAAATTTTAAAGTTTAATTAGNTCTGAATTAAATAT
Sequence 3820

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTNTCTTTTTT
TTTTTTTGATACGGAGTTTCACTCTTGTTGCCAGGCTGGAGTGCAATGGCGCGATCTCA
GCTCACTGCAACCTCCGCCTNCCAGGATGAAGCCATTCTCCTTCCTCAGCCTCCTGAGTA
GCTGGGATTACAGGGCTTTGTAGCTGAGCATGTTTCTAAATAACACAGCCACTCAACTGA
CATACCATGGATTATGTGAACCTAAGGTTCAACGGTTCAGGAAGGAGAACTTTGTGTGTTCT
TTCGGAATANTCATTTTTAGCACCATGACCAANTACAAGGGTCAACTGTATTTGTTTGGT
AACGGACCAGGGGTTTNTTACTGAAGAGAAAGTTTGTTTG
Sequence 3821

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATTGCATCACCAAA
AGCTGTTTAAATTTGGATTGTGTAGAATAAAAGAAACTACATAAGTCTTTGTGGCTTTGA
TAAAAATTTTAAATATAAAAAATGAAAAAAGAAACCCAAAAGCAGTATTCAAACTAAC
AAATGTCACCTTGACTATTNACAGTAAGACGCCTTTTTGACAGGAGAATCTTGTTCTCA
GCTTGTTCTTTTCTCACATTTTACTTACAGGGATTCTCCCTCCCCCATCTGATCCCCTA
TTCATAACCTNTGTTCCCATTTCTGTCTCACCATGNAAACAGCCATCTTTCCATGCTTC
TCTTCACTCATCTTTNGAGGTCTCTCTNTGACACTCCTTTTTTCTCT
Sequence 3822

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGACGCGGGGACACTAG
CCACACTTCAGGTGCCAGTGTCCACACTGACTAGTGGTGACGGCGTTGGACAGTGCAGA
TACAGAACATTTCTGTCATCACAGAAAGTTCCTTTGGACAGAGCCATGTTAAGTGATGTT
ATCACAGGATGGACAGAAACATTCCCGTTTGATTTATTTTTCAGACCCAGTTTGTGGAGA
AAAATAATGATGCTTTACATATGTCTCTTGAATCCTTAATATGTGAATCCAGAGATAAGT
TTATACGGGAATTATTTGAATCATCCACAAATAACAACAAAGATACTAAACAAAAAGCAG
GAAACTTAGCTTCATCAGCGTGGGAAACAAGTTTAAGACACAGTTAAATTTGCTTCTGG
ATAAACTTTCGAAGTACCTCGGCCGCTCTAGAACTAG
Sequence 3823

GCGAATNGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACNATCTTGGCTCACTGCA
ACCTCTNCCTTTTCGGGTTCAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTA
CAGGCGCGTGCCACTGCGTCCGGCTAATTTTGTATTTTGTAGTAGAGATGGGGTTTCACC
ATGTTGGCCAGGCTGATCTCAAACCTCTGACCCCATGTGGTCCACCCACCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAAAAA
CTGGCNCCCATTAAGTGGATAAAAAATCTCTGNTTTAAATCCTATTTACTATTTTNA
GANAAGGTNNTTAGTTTTTTTTTTTAAANANCAATAATTTCTGTTANTNGATAAAAAAT
TNAAGGNCNTTTTNAATTNGCCTTTTGNCNNNATTTNCTAAAACNNCCNNNAAGGGGGAN
NGGGGGGNTNANNATTTTTTAAAGGGGGGNTTTTTTTTTTTTAA
Sequence 3824

AGCTCCACCGCGGTGGCGGCCGAGGTCTTGNTNTTTTTTTTTTTTTTTTNNCTTTAAA
AAAAATAGGGAATNCAAGGATTTACAAAAAACCTCACACAGTGCAATAATAAGGAAAG
CAGACACTAGTGGAACCCCTAGGGCCACTGCATCTTGTTTCATGGCAAAGAGGAAGGGAGG
TGAGGTCTGGGTAGAGTGCTTTTCCCAGTCCCCTGCTGGCACTTCTCCATGATGACAAGG

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AAGTNTCTGCCATCCTGGCCACAGTGCTGGGCTCCCTGCATGACAGTGAAAACAGTGACA
ATGTTCCAGCAAAGCCACCAGACAAAGTTCTTAAGGTCACAGGAGAGAAGGGAGCCCAGG
ATGGAAGGCACAGCANAGCCATGAGTCCTGGGGCAAAAAGTGCTGGGCTGANNCNTATTG
CTTTGCTAGACTTCCATAGGAATGGGCTTNTTGCGGCGAGAAAAGGGTGCCCCACCCTNT
ACTTGGACTACACTACTNTGAAACCTTGTGGCAAAGGCAGAAAAAATNTGGTTTATCGN
GAGNNGNCAAACCTGNGCTTTANTTTCAACANGCTTGCCCNAAAGANGGGCACAAGGGGAT
CAAAGGGGTTTNTTGAAAAATTAAGACTTGGTNGGCAAAAGGNAAAGGAAAAAGTGGNCT
ATTANGCAAATGGTGATGCCAAAAAGGTCAAGTGGCANTCAAANTGTTGNTTGTTACCTN
TGAAGNAANAAAAATGGGGGAAAGTAAANAATGCNTNTNCCNCCCTTTTGAANTTTCCCC
CAAAAGGAAAAGGGGGAAAAAAA

Sequence 3825

GGCCAATTGGAGCTCCNTTNCGGNGGCCGGCGGCCCGGCAGGTACGCGGGGGCTTNCTCT
TGAAGTGACCGCNTTNNAGACGGTTGTTTTAGAGCAAGGCCCATGTAGCATCCCTGGAGG
GCCTCATCCCTGAAGATAAGGTTGTGCTTCTGGCAGGTTCTCCCTTACAGAATGAACACC
TGGGTCAAGTGTGGGGTGGGAAGCCCTGACAACCCTGGAAGTGGTTGGCCGCAGGCTAGGA
GTTCAACAATGTCTAAAAGTCAGCTGATTTTGTGTTAAATTCAGTGTCTGGCTTTGCTTC
AAAAATTGGGAAGATCGGCCGGACGCGGTGGCTCACGCCTGTAATCTCAGCACTTTGGGA
GGCCGAGGTGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTGAA
ACCCTGTCTCTACTAAAAATACAAAAAAGTACCT

Sequence 3826

CCGCGGTGGCGGCCCGAGGTCCTCACAGGTCCTCAAACTTTTTGGCTTCAGGAGACTTTT
TTCCTCTTAAAAATTATTGAGGGCTGGCCAGGTGTGGTAGCTCACGCCTGTAATCCCAG
AACTTTGGGAGGACATGGCGAGAGGATTGCTTGAGCCCAGAATTTGAGACCAGTCTGGCC
AACATAACGAGACCTCGTATCTAAAAATAATAACCCAGCCTGGTGGCACACGTCTGTGGT
CCCAGCTACTTGGGAGGCTAAGATGAGGGAATCACTTGAGCCCAGGCAATTGAGGCCTCC
AGTGAGCCGTGATTGTGCCACTGCACTCCAGCCTGGGCAACAGAGAGAGTCCCTGTCTCA
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AGGAGGCCAATACAGCCTTGGGGAATTGAGGGACTATAACAAAAGATCTAGTATTTGNGG
TATCACAAAAGATGGGGAGAGACTGAAAAGTATTGGAATAAATAATGTCTGGAAAGGTAC
CAGTTGGCNAAAGGCAGAAAGNTTTAGATTGANGAGNCTGAGCCAAATCCCAACTGGGAA
AAATCCAAGGGATT

Sequence 3827

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGAAGACCAGGCCCTTTC
CCTCCAAGCAGCAAGTAGCTGATGAAGATGAAATATGGAAGCAAAGACGAAGACAACAAT
CAGAAATTTCTGCAGCAGTAGAACGTGCTCGTAAACGGCGTGAAGAGGAAGAGCGAAATG
GAAGAACAAGGAAGGCAGCTTGTGCGGAGAACTGAAACGATTGGATGAGAAGCTTGGC
ATCCTGGAAAAACAACCATTTCCAGAGGAAATTAGGGAAAGGGAGCGAGAAAAAGAACGG
GAGCGTGAGAAAGAACTTGAAAAAGAACAGGAGCGAGAGAAGGAGAGGGGAAAAA
GACAGAGAGAGACAGCAGGAAAAGGAGAAAGAGCTGGAGAAGGAGCAGGAAAAACAAGA
GAAATGGAGAAAGAAAGAAAGCAAGAAAAAGAAAGAACTTGAACGGCAAAAAA
AAAAAGTACTGCCCCCATGAGGAAAGCTCTTCCAAAAAGACTGACCCCTTCCCTGCCTT
TTCTGNAATAAAGAACAGCTTGACAGCAAAAAAAGT

Sequence 3828

CNGGCGAATTGGATTTTCCCGCGGTGNCGGCCGCTTCGACCAACATGTGNTNAGCATTCC
ACGGGCGCATGAAGTCTGGGTGNTNTGCTCGAGTCTCTGAATATTTTGATAGGAAGCGAC
AAGAAAATTCAACTGCTCTTTGCTGACTACTGGAAAGTGAAAAGATGCTCAAGTTTACA
TTCAAAGAAACCATAGGCATTTCAAAAACCTCTTTCTAACTTTGGTTTAAAAAAATCA
GTTCAACCACAAACAGAAATATAAATCGAGGCTGTAGCCAGCTGCTGGTCATGTCCTTGGC
AGTCTTTTGTGCAAAATAAGGCATATTTGAGCTCCACATTAACCTTGCGGCAGGCGTCTA
CTTGCTCTGCATGCTGTAGCAAGTGCACGTCCTCCTTCCCCTTGGTGGTGTAAGCCTGGG
AGAGGCTGCCCATACTTATCCACACACCAGCAGAAGCCCCGCTTCTGCTTTGGAAGGG
CGACACCGCTTTTTCTTATAAAAANCCTTCTTGNCACAAGTTGGGAATGTGTACCTGGCC

Sequence 3829

CGCCCGGCAGGTACCTCAAAGCTGCAAGTCAGATTCTGATATTGAAAGATGGTAAAATGG
TGCAGAAAGGGGACTTACACTGAGTTCTTAAATCTGGTATAGATTTTGGCTCCCTTTTAA
AGAAGGATAATGAGGAAAGTGAACAACTCCAGTTCCAGGAACTCCACACTAAGGAATCG
TACGCGGGGGTTCCGGGCGTTACCATCGTCCGTGCGCACCGCCCGGCGTCCAGATTTGG

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CAATTCTTCGCTGAAGTCATCATGAGCTTTTTTCCAACCTCCTGATGAAAAGGAAGGAACCTC
ATTCCCTTGGTGGTGTTCATGACTGTGGCGGCGGGTGGAGCCTCATCTTTCGCTGTGTAT
TCTCTTTGGAAAACCGATGTGATCCTTGATCGGAAAAAAAAAAAAAAAAANANG
TNCCT

Sequence 3830

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCCGGCGGCAGGACTCCAAGTAAA
GCTCCAGTGACTAATATGTATAAATGTTAAATGATATTAAATATGAACATCAGAATTACT
TTGAAGGCTACTATTAATATGCAGACTTACTTTTAATCATTTGAATATCTGAACTCATTT
CTATTTCTTGCCAATTACTCACTTGGGTATTTACTGCGTAATCTGGAACATTTAGCTAAA
ATATACACTTTTGGCTTAAAAATTATTGCTGTCAATTCCAATAATAATTCTTAGCTTATA
ACCAAAGAGCAGTGTTTAAAAGGAGAGCTTCTATACAAAACCTATTCCCTGGCGTTACTTT
TCATACAATTTTGTCTGTTTACCTGGAAATAATTTACCAAATAACTGAGTGTGCT
GCTAAAGAACAAAAGTGGGGAGGTATCAGGGAACAAGAAAACAAGAAAGGGTATGATCAA
TCATTTTCTTCTGCTCCAAACAGCTGGAGTAAAATTCATGGGAAATGGCCCTTCATTTAA
AAAAAGATGTACCTCGGCCGCTCTAGAACTAG

Sequence 3831

CCGCGGTGGCGGCCGAGGTACAGCATATGGAGGTCAGGAAGGCTATTTGCAGCACATGTG
ATTAGGGGCTACTGATCTTCAGGGTTTAGCTTTCTTCCAAACAGTGTAATAACCCACAA
TTCCAAGTATGAANGGACACAGACGATCTCCTTTGAAATTCACAGGACAATACAGGCGC
CCCAGCTGTCTTTCATAGAGCGACAGTGCTTCTGTGATGACACAGTTCCCCTAAATC
AAAGAGAGATAAGCAAATGGGATTCTTGAGTCCTTCCAAGGGCCCCACTCATCTGAAGGT
CTTTAATAAAGGAGAACAATCTAGCTTTAGATAAAAGTTCATCTTTAA

Sequence 3832

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAAAGTTATAATTTTAATGCT
TTTCACATCCATGCTGAAAATCTGCAATTTGGTAAAAATGAAAGGAACATAAATTTTCC
AAAGGAATTTTTCACGCCATTATATACACTTCATGAGAAAGTTTCAAACACTTTCTCA
ATGATCACGAGTTACCAAGAAAATAAAAGATTAAATTTGTACTTTTTTTTTTTTTTTT
TTGTAAGTGAAGCTTTATCTTGGAGNGGGAGGGGGGNTTGTGNNCCAGNTGGGGCACCC
AAAGACAACCATGCTCTCGGTGAAGGCGCCCGAGGTCCTGGCATTGNTTCTGGNTCTCTT
CGNCTTGGCATT

Sequence 3833

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTAAATTTTTTTTTT
TTGGTGGAGATGAGGTCATCGCTATGTTGCCAGGCTGGCCTTGAAGTCCAGGGCTTAAG
TGATCCTCCTGCCTTGGCCTCCCAAAGTGCTGGTGTACAGGTGTGAGCCACCACACCTG
GCCAACATGTGGCTTTCAAGTTCTTACTTGAAGACAGCTGCTCTAGCTAGAACTTTCTA
TCGGGATTCTGAGCCCGCTGGGNAANGGCATTACCTTCCCCACCCCAAGAACACTTCTT
GGGAAGTTNCNCNCAATNCATNAACTTCAATTTCAAACAGTTGCTTGGTCCCACTAGCCA
TGAAGCTGGATGGGGACGTAATATTCTATCTGGGGGTTTGTGATGGGCCAAATTAACATT
TTGAGAATTCTGTTANGGAAGATGAAGAATTGGATAATGGGCACCTTAACAGTGGTCTGT
CAAGAGTTGACATACATTGGNGTATCTNCTGCACCAAAGCATTT

Sequence 3834

GAGGTACTTTNATTCAGTTTAATGACCTAGACAGCCTTCTNCCTCCAAAATATACATGC
ACATATCTACCCAAACCAATTCTTTCTCTAGAACGAAACCTGGNCCCATTTTAGGACAC
TTTNTTTTTTGACGCTTCCAGAGAACTTTAGAAAAGNTACTATTTGNGTTCCTTCTATAAT
CATTTCCCTNCCTAGGGAATNTCTNTTTTGNANTGNACTATAATGAAGATGNTTTNG
GATCTTGCNTTTGGCANATTTTANAAACNGGNTCCCCAAAAAGAATATTTNGGTTTCCTT
TTAAGGGGGGGGTTT

Sequence 3835

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCCAGCTGATGATGTTCCACAAAAGAGCAAAA
CATACACAATCTGGTTCCAGTCTACAGAAATCCTGGAAGTGGACTACAAAGGGAATAGAC
AGGGTGTGGCAGGAGGGGGTTCCTCACGGTTGGAGTGCGAGGTTAGGGACAGGAATAGAA
GGTAGGTAATAAACATTCATGTGGTATTAAGTTAGGGCAGATGTGTCAATATATTTCCAA
GTTTAGCATAATATAGGTATAAAAATTAAATAAAAAGTTTATATGTGTGTGATTATTGG
GGGTTAATACACAACACATACCTCCTTAGAGGTCATTCCTGGAGGGGGGTTCTACAAGGA
AAAGACAGGCAAATTAACAAAAAATACACCCAGAATCAAGATTTGAGTTTTTGGGTTTCCT
TTNATAGCAGAATGC

Sequence 3836

Table 1

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GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTNGC
AAGTCTTCACAAAATTTTATATTCCCCAAGGCCGGGCCATCACAATGCCTGTGAANCTT
GACTGGCAAACACTGAGGCCTGAAGCTTGGGGGCTGCAGGGGGTCACTGGCTCACCCGGT
CCCCCGTAATCTGTAAACATACTGGGTGAGGNAGGCTGCTGNACNACCTGAATTCTCC
CTTCTCENNNGNCAGTACNGAGGNANATNCCTGTTGANNANTNNNCCCATTNAAGANCATT
NNANACCCANNNNNNAANNNTNAAACNCTNAAGNAAAAAAGNAAANNNNTTCCGNCC
CNNATNTNGAAACCANAAAAAANTNTCTCNNCTTNAAAAANNANAAAAA

Sequence 3837

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGGGCCTGATGCCTCAAGCCTG
TAATCCTAGCACTTTGGGAGGCAGAGGCGGGCAGATCACTTGAGGTCAGGAGTTCAAGAC
CAGCCTGGCCAACACGGTGAAACCCCATCTCTCTAAAAATACAAAATTAGCTGGGCGTG
GTGGCACACGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCTGGAGAATCATTGAACC
TGGGAGGGGGAGGTTGCCGTGAGCTGAGCTTGCACCATTGCACTCCAGCCTGGGCGACAA
GAGTGAAATTCCATCTCAAAAAACAAAAACAGATTGACAACAAAGACAGTTTCAGAAAAT
GACAGGGACTGGGCAAATTAACAAATGGTTTGTAACATGNAATGTTTCAGGAAGTACTTG
ATGTACCTCGGCCCGCTCTAGAACTAGGTGGGATCCCCCGGGCTGCANGGAATTCGAT
ATCAAAGCTTATCGATACCCGTCCGACCTCGAGGGGGGNCC

Sequence 3838

CGAATTGGAGCTCNCCGCGGNGGCGGCCGCCCGGGCAGGTACTGAATGAGTATTGCTTTT
GCACCATTGTGAAGTTGACAAATCTAAGACCATCATAAGTCGGGGACCATCTGTATACAC
AAATACACGTAAACACACATGTATTTTTTTTTTTTTTTGAGACAAANGTCTTGCTCTGTCG
GCCAGGCTG

Sequence 3839

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGTTGAGTA
TCCCTTATCCGAAATGCTTGGGAGCAGTGGCGTTTTGGATTTTGGATTTTTTAAATTTT
GGAATATTTACAAATACATAATGAGATATCTTGAAGATGGGAACCAAGCCTAAACATAAA
ATTCATTTTTCTTTCTTTAAAAAAGAAAAGCCAGTGTCTTGCTCTGTGGCCAGCTGGA
GTGCAGTGGTGGGGTCATAGCTCGCCGAGTCTCAAACCTTGGGCTCAGCCAGGTGCCATT
GCACCCTTTTTTAAAATGTTTATTGATACAGCCTCCCTATGTTTCCAGACTGATCTCAA
ACTCCTGGCCTCAAGCAATCCTCCTGCCTCAGCCTCCCAAAGTGCTGGGACTACAGGCAT
GAAGCCACCACACCCGGCTAATTTATGTTTNATATACATCTTNGNAGTTATAACCC

Sequence 3840

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTNTTTTTTTTGTNTTT
TTTTTTTTTNTTTGAGATGGGGTCTTGTCTATGTTGCCAGGCTGCTCTTGAACCTCCTGGG
CTCAAGCAATCCTCCTGCCTCCCAAAGTGCTGGGATTACAGGCATAAGCCATTGNGCCTG
GCCCTCTNGGTAATTTTGNATTACTGACCCATACTCTGCTCCTTGGCTATAAATTCCCAC
TTGCTTATGCTGATATTTGGAGTTAAGTCCATTACCCCTCTACCACTGCAAAATCCCATT
ACATTTGTCTATATACCTGTCATAATGGCCCTGAATAAAGTCTTCCTTACTGTGCTTTAA
CAATTCTCATTGAATAATTTTTTTTAAAC

Sequence 3841

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGCACTTTGTNTTTTTTNTTTTTTTTTTT
TTTTGGNTTNTTTTTTNTNNTCTTATCACTTNAGGTCAGGAGTTCAAGACCAGCCTGGCC
AACACGGNGAAACCCCATCTCTCTAAAAATACAAAATTAAGCTGGGCGTGGGTGGCACA
CGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCTGGAGAATCATTGAACCTGGGAGGG
GGAGGTTGCCGTGAGCTGAGCTTGCACCATTGCACTCCAGCCTGGGCGACAAGAGTGAAA
TTCCATCTCAAAAAACAAAAACAGATTGACAACAAAGACAGNTTCAGAAAATGACAGGAC
TGGGCAAATTAACAAATGTTTGTAACATGAATGTTTCAGGGAAGTACTGATGTACCCCTCG
GCCGCTCTTAGAACTAGTGGGATTCCCCCGGGGCTGCAAGGGAAATTTNCGATATTCAA
G

Sequence 3842

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCCAAGCTCTGAGACCA
CCTNTTCTGCAAAGCCTTCCTGATTCTGCAAAGAACAGGNAGGCATTTTCATCCTTGGGAC
CTCACAGCANTTCAGGACACATTTGTGTCCCAAGCCCTGCTTGGCTTGGCTGTCTNCATG
AATATACACTTTGCAACTTCTGCACCAGGCATCATACCAAGCACACAGTAGGCACTCCTG
TGTTTTTTGAATAAGTGACTATATCATCACCATTTCAAATGCGGAATATATGANCTAC
TAGAAAAGACATANGGGTNGGATTTTACATCTTTATTGTATCCTAAGATATACAAGTCTA
TTACTGCCTTTTCCCATGTNTCTGCCAACATAAGCATAAAGAAGNGGGGATTTACCNGTT

Table 1

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AGNAAATTGAATAAGCCGGCCCGCTTCTAGAACTAGTGGGGATCCCCCGGNCTGCAAGGA
ATTCCATATCNAGCNTATTGAAACCGTCGACTCCAGGGGGGGGCCCC

Sequence 3843

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGGACTTTTTTTTTTTTTTTTTT
TTTTTTCGGCTTCCAAAAGCTTTATTGGCAAATATGCTCTATAAAAGAATGATCAATCCT
GTTGCCTNTAAGTCAATGGAATGAAGAGCTGTGTCCAGGGACACACCACGCCGTGCTGAA
GGAGACTGCTGTTGNGTCCACCTNTTATTCATAGACCCAGTCATGAGCACAAGACTTGTA
GTCAACCAGTTCTTCAGGCTTAAACCACCCGCGTACTGGAAGCAGGAGGGAGCCCTGGCT
AGGGCAGGCCTTAAACGCAAGGGAAGCTGAGCAAGAGATCTGCACACTCAAC

Sequence 3844

ACTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGGGCATTTCTCCCAGGGATCT
CTGTGCTTCCTTTTGTGCTTCCTGTGTGTGTGGATATTTAAAGGGGCTGGAAATGTGCAA
AAACATGTCACTACTTAGACATTATATTGTCATCTTGCTGTTTCTAGTGATGTTAATTAT
CTCCATTTTCAGCAGATGTGTGGCCTCAGATGGTAAAGTCAGCAGCCTTTCTTATTTCTCA
CCTGGAAATACATACGACCATTTGAGGAGACAAATGGCAAGGTGTCAGCATAACCCTGAAC
TTGAGTTGAGAGCTACACACAATATTATTGGTTTCCGAGCATCACAACACCCTCTCTGT
TTCTTCACTGGGCACAGGAATTTTAATACTTATTTTCAGTGGGGCTGTTGGCAGGAACAAA
TGAAGCAATCTACATAAAGGCACTAGGNGCAGTGCCTGACACACACCATTCTCTTGAGG
TCCCCTTAGGAGGATCCCACANGGTCATATGACTTCTTGGGG

Sequence 3845

CCGCGGTGGCGGCCGAGGTACTTTCCTTGGGATGGCTTTCTAATTTAAAGAACAGCCTGC
CTCAAAGCTTGCAGTGAAGTGAAGCAGATATGCTAGCACCAACTTTTCCAAAAAAAAAAAA
AAAAAAAAANNGGTACTCCCAACTGTGGTCCGCGCTCTCACCCCTTCTGCTGCTCTCGTG
GCCCCCTCGCGATGGGCGGGCATCCTGTTTGAGGATATTTTCGATGTGAAGGATATTGAC
CCGGGAGGGCAAGAAGTTTGACCGAGTGTCTCGACTGCATTGTGAGAGTGAATCTTTCAA
GATGGATCTAATCTTAGATGTAAACATTCAAATTTACCCTGNAGACTTNGGGTGACNAGT
TTTCCGGGTGGTCATAGCTAGGACCTTGCCCGGGCGGCCGCTCTAGAACTAGGG

Sequence 3846

NCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTGGANACAGGGACTCA
CTNTGTTGCCAGGCTGGANAACACTGACNCCNTCACAGNTNACTGCAGCCTTGACCTCC
CAGGCTGAAACNATCCTCCCACCTTAGCNTCCCACATAGCTGGGACTACCAGATATGCCC
ACCATGACTAGCCTAATTTTTTGTANAANACAGGGTTCTCGCCATTGTTATGCCCAAGGT
CTTGGTTCTTCNAACTCACTGNGGCTCAAGAGNNAATAACCATCNTTNCCTTGGGGCCTC
CCCAAANGTGNCNNGGGGTATATACCANGGGTNGTNGAAGCNCNCNAACGGCTCCAAGN
CCATATTTTTCTTTTTGAATTTTGGGGNTTCTTGTNTTGGACCCATTCAATTGGNCAAAAT
TGACCAGNATTCATTCCAATTTCCATCAANGGGAACAANTGGGGGGGGCCT

Sequence 3847

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGCCGGGCAGGTACCTTTTT
TTTTTTTTTTTTTTTTTTGNTTTTTTTTTTTTTTTTTTTTTTTTTNTNTTTTACNCTTTGA
TATTTATTAACAAAAATGGNCCANAAAAGGATTGAGTCAAAATTACAAAGTGATTAANAG
TTAAACAAAAGTTGTTNTTTATTGGANTTTNTGGGGGACTTTAACCAGNCCCCAAAGCT
GTTTTTATNTCCTAAAATAGGANTTAAATGACNTTCCCTCAAGTGACNNATTTAATAGA
AACNCCNCCTCTTTCCTTT

Sequence 3848

ATTGGAGCTCCCCGCGGGGGCGGNCGCCCGGGCAGGTACTAAAAGCGGGCACCACCATGC
TTGGCTAATTTTCATATTTTTCATAGAGACGGGGTTCCACCATGTGGCCTTGCTTGGTCT
GAAAGTTCTGAGCTCAAGCAACCCACCTGCCTTAGCCTCTCAACGTCCTGGAATGACAGC
ATGAGTTGCCACACCTGGCTGCATGCCGAATACTTTAGAGTTGTTTATGCCTGACACTTC
CAGGGCATGCAGAACTATGGTGGCATTAAACGACACATTAACCAACTGCCTCACTTACTT
TTCTTTTGACTCAGTTTATAAATTTTCTTAATTTAAATTTTAAATTTCAACATGTATACAT
CTTTGAAATAAATAAATAAGCTCTTTGAATGTTTGACATAACGTAGAAGAAATTGACAA
ATGGACATCTTTACTTTCATTTTCT

Sequence 3849

AAGGGCGAATTGGACTCCACCGCGGTGGCGGCCGGCCGGGCAGGTACTTANCATGCTTTC
AACANTAAATTCTCTGACAAACCCTAAGTGTAATCAGAAAAAGCTACACTAACTAAAT
GCATGATTGAATTAACATAATCTNCCATAATCAAGAAAGTNTCCTAAAAGACTTTNCATT
TTTCTTTGATAACCATTTATNGTCTATANATACNCTATGTGTCCATNTACTCCTAANNA

Table 1

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AATNCCNAACTTTTTAAAAATTATTAACCANAGGCAGANNTTTTTTTCTGACAAATGGAG
AAATCTGGCCAGCAGTTANAGNAGTCTTTTATTTNANCTCAAAAAAGGGGAATNCTNGG
TGGTTCNAAANAATTAATTGCAACATNCTCNTGGCCCANNTNTNTGGTTATTCTTATTGG
TTGGACCTTGGTAAA

Sequence 3850

ATAGGGCGAATTGGAGCTCCCCGCGGGGGCGGCCGAGGTACAGATTTGATTATGATTTTA
ATGTTTGAAAGATTGCACTTGTTTGCTTTTACTATATGNGGGGTAAAATATATTTTCTGT
TCACAGTATATGAAAATATGGAGTAATTTAAACAGTAAATAAACATTCTGTGGATGCTTA
TTTTTGATTGACAAAGTATCAATTAACTATATGTGTCTTTTTTCAAAAATGCTGGATC
CATTCATGATTGGTTCAAATATCTAATTATTTCCCTCAACTTAAATTTGCTTTTTTAAATTG
CTTAATATGTAGGGGTAGGTTACCAAATGATAGTTGGATAAGGAATCATTANTTATCAA
GAGCTTCANAGGGGTCATCTGCTTTCCACCAAGGAAGTTTAAGCATTATGGGNTCATTAC
NTGATTTTGCTTGAANAATT

Sequence 3851

CCTATAGGGCGNANTGGANCTCCCCGGGGGGGNGGNCNGNCACTAAATGCATCCTCCAT
TNCNTATTTTTNTCTTTTCTAAATATCAACGGGATGGGNGGATACCANCTTACTGGGNA
GTTCTAAAACTTTTGCTTTCTTTCAAAAATTTNCAGAAACATATATCCATTCTATAATT
GTGATAGATNGGAAGAAATATTTCCCTTANGAAATTTTGNAAGGAATACTTCCACTCTT
TTGTATGTAACATATGATAAACGATAAAAACCCAAGTTCAGGCCATTATTATCATCTTGA
TCAAAAATAT

Sequence 3852

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATATTT
ACTGTTTCTCTCAACTTTAAGAAGTCTAGTCTCACTTCAGATATATTATACAAATCCTAA
TCAAGAAAAAATCAATGGATTTTCACTTTTAAAAATCTTTCTTCCCTCTCCTTTT
AGGAAACGCAGAAAACTAAGCTTTCTTTCAATACCAACACCAACAATGGGCTTTCAATA
CCATAAGCACATCAGGGGAATTAACTCTTCCATGGCAGAAAGAGGAGATAATTTAAAT
GAAACCTCAGCCTACTCCTCATAGTCTACCTTAAATAGTTATACTATGTTTTTAAAAAGC
AAGTTATTACTTTAGTAACCATTTAAAGGAAAGTAAGTAACTAGAACTATTTTGTTATAAAGC
ATAGCTAAGAAAACAAAATGTCCCAATCATTATATTAACCTACAAAAGCATACTAA

Sequence 3853

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCCACGTCCT
GGGCACCTGGCCNAACNTGGCCAGGTAGGGCTCGTAGATGACCGAACGGAATATCCACCT
CCAGCGCTGCTCATTCTGCCTAAGGATCCCTTGCTTGCCACCGCCAAAGGCCACCATCC
ACACCGCANAGAGGAACAGGAAGAAGAACACATCGATCAGCATCCTCTGCAGCATTATAA
TCTTGGGTCCTAAGTTTCTGCTTACAGTAAAAATGTGGATCAATCTTAGAGTGAAAATAA
TGTAAGTCCAGACAGAAAATGACTCGTCCAGAATACAAAGAGCTTTTATTAGAAGAGTGGG
AGCCGAAANACAATTTCTGCTATGAAGTAAAAAAGCCCCAGCGTGTCCATCACATTTCC
ACAGGGTCAGTAAAAATAATTCACCCCCATTTAACGTNCCCTTCGGGCCGCTTCTTAACT
NAGGGGGANTCCCCCNGGGCCTGGCANGGAAATTCANNTTTAAGCTTNTTCNATNCCC
CNGCCGGANCTTGGGGGGGGGGGGCCCCN

Sequence 3854

CCGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCATGGTACAAGAAGCACTATA
TAGCTCATTNACNCATTAACCTCCAATCTTGCTTTGCATAAATATGGCATTTCAGAAGTCA
AGCATACAAAATACTTTCTTAGAGAAATAAAAATATATGTAAAAGCCAGACAGGCCAAC
AGGGCGATCACATTCCTCAGAACCGCATTGTCCAATTCAATAACCATCATTCACATGTGG
CAATTAAACACATGAAATGTGGCTTGTCCTCAAACTGAAATGTGCTGTAAATGTTAAATAGA
CACTAGGTTTCAAAGATCTTGTAACCT

Sequence 3855

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTAGTTTA
TACAACTCCATTAAAGAACTTCCAAGGTCTGGTTTGCCACATGCTATATAGTCTGAATG
TTAGTATCTTCCCAAATTCATAGGTTGAAAATCTAACACTCAAGGTGACGGTNTTAGGA
GGTGAGGACTTTGGGAGGNGATTAGGTCATAAAGGCAGAGCCCTCATGAATGGAATTAGT
GCCCTTATAAAGAGGCCCTGATAGAGACCCCTAGCTCCTTCTACCAGGACATAGGNAGA
AGGNGCCATCTATGAACCAGAAAGCAGATCCTCACCCCTCACCAGACACCAAATCTGCCA
GNGCCTTGAGTTCGGACTTCCTAGCCNCTAGAACTGTGAGAAATTTCTGGTATTTACAAA
CTACCCAATTNATGATTT

Sequence 3856

Table 1

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CCGCGGTGGCGGCCGGCCTNACACACAGNGCCACCTGCCACCTCTAGANTTNTTNTTGCA
CAGGAAAGAAGNTNCTTTTAAATGGAGCCCANGTGCTATGAGTCTCTGNTATAGCAGGCTG
AGCCANGAAGTGCGGGCTAACNTNTGATNCCNTGCCCTATNTCTTCTTCTCTCANCTCNG
AGGCTGANACCTTAAATCANNANAGGAGGTACGATTTACTAGTCTCTGAATCATTTATTNC
NTACTTCTTAATTTGAGACAANAGGTCTTGCTATATCACCCAGTCTAGACTTTGAACTCC
TGGGT

Sequence 3857

NCGGCACGGTTACTAACGGATTTTCCGAGCTTAAGCCTCTCACGAAGCGGGAATGGGTG
TCTTCTGGCCTCAGAGTATCCCTTATCAGAGCCTTGGGCCCCCTGGGCCCCCTTCACTCAAT
ACTTGGTGGACCACCATNACACCCTCCTGCACAATGGTTATTGGCTTGCCTGGCTGATTC
ATGTGGGAGAGTCCTTGTATGCCTTAGTATTGNGCAAGCATAAAGGCATCACAAGTGGTC
AGGCTCAGCTACTCTGGTTNCTACAGACTTTCTTNTTTGGGATAGCATCTCTCACCATCT
TGATTGCTTACAAACAGAAGCACCAAAAGTAAACTTGAAAGATGTCTGAANAAAAA
ANTTTTTTTNGGANAANAANNGTNNANAAAAAANNNNGGGGGGNGGGNCCCCNNNTT
NNNNNAAAAAANNNCCCCCCCCCCCCCCCCNGGGGGNGGAAAAA

Sequence 3858

NCAGCCTGCTCCCTTCCCTCAGAGCCGTNCAGGACCAGGAAGTATNCCTAGCATTTGGCA
TATATGTGCAGGAGTGCCAGCTTCCTCTCTCTTCAGTCTCAATNTCTGTGCTGCCTCACT
ATTGACACTTGGNGTTTTATCTCCAGAGATCTGCTTAAAGTATGTNTGGTGTATTCAATA
TTCTGNTATCTTTCAGTGGAGATAAAAACACCAAGNGTCAAAGTGCGG

Sequence 3859

NCTCTCAACCTTCTGAGGAATCTCGTGGTGTGATTATTCTGGGTGCGACTGTATCCTC
TGNTTCTCTTTTTATAGGCTCCTAACGTTNGNATTACGTTNTCCCTATTAATAAGTTC
TACCCGTTACTTTAAATAAGAAAGTTCGTTCTTTTCACCTTCCTTTTACAGCCAGATTTT
TCAAACCAAGTGTGTCAGGTGGGTAGGCAGATATGGTTGCTGGCAGGAGCTTGTGAAATG
AAGCAGGGTTTCAGCTGATGAGTGAGGAGG

Sequence 3860

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTACTTTTTTTTTT
TTAAAAAACCTTGAGCTCTTAAGGATTAATGCTCTTGAGTTATGAGATATCCC

Sequence 3861

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTNCCTTTCTAGGGTCNAAAGTCAGGCAATAAATACAANAATATTTGGAAGTTT
TATTTTTATCATACAATGANACTATCTTTTCTACCTTGGCTTCCTAGTATAAAAAGCTAT
TTGAAAATTTATATTCAATGTAATTTTTGTTGAGGCCTTTATTGGAATAAATTTGTANC
ATTTTTTTGAGGAANAAAAACNCATAATGTGAACAGAGCTATAACTGCTGAATTAAANAA
AACTATGTNGCATTTATTTNTTANNAANATTTTGCAAGAAAGGTNTGAGGCCCCACT
TAGGTCCNCCNTGCAAGTCAACACATCCTGGGTNTTGCTCCNACTTGANCTCCTNATGGN
CCCCTTGCTTGACAAAAAAT

Sequence 3862

CCGCGGTGGCGGCCGAGGTACTCTTTGTTTTGGCACACTTTTCCTGACANNCAGCCAGTG
TTCTCAACACATAAATACTAGTCCACGTTAACAACAATAGCATATGAGACCGCTCTCCGT
AAAGATGCCAGATTGGATGCAAATGGACTGGAAATACCTTGGAGGGTTTCACAAAAATAA
GACAAAGGGCAAAGGAAGTTTGCCAAAGGAGATGGAGAGCAATTCTTTAAAGTTAGTGGG
AGGGAGGAAGCAAAGAGCTCATAAATACAAGCCTCTTAAATGGGACGCATTTGCCTCGC
GCCTACTGGGTGTCTGCAGCTCAGCTTGGTGCCCCACACAGGACACCGACTTTAAGTGGC
TGCTTTTGCAAGGCTGANGAGGCTTGAGGGTTGATGCCTGAAAGTGTGAGCGCCATCTT
AGTGGAACA

Sequence 3863

CCGCGGTGGCGGCCGAGGTACTTACGGAGTGACAAAGGGAAAAGTNTGCTTTGAGGCAAA
GGTAACCCAGAATCTCCCAATGAAAGAAGGCTGCACAGAGGCCTCTCTCCTTCGAGTTGG
GTGGTCTGTTGATTTTTCCCGTCCACAGCTTGGTGAAGATGAATTCTCTTACGGTTTCGA
TGGACGAGGACTCAAGGCAGAAAATGGACAATTTGAGGAATTTGGCCAGACTTTTGGGGA
GAATGATGTTATTGGCTGCTTTGCTAATTTTGAGACTGAAGAAGTAGAACTTTCCTTCTC
CAAGAATGGGAGAAGACCNTAGGTGTGGCATTCTGGATCAGC

Sequence 3864

NGGCCGCCCCGGGCAGGTACCGTGGCCAGGGTCAGATNGTGCAGAAGGTTANGGTGCAGCC
CANNAACCTNATCTTCAGANACTTACAAAATANANCGCGGATTCAAGGTGNGGCNCTATG

Table 1

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AGCAAGTTGAATATGCGCGANAGAAGGCTGNCATCANNTGGTTCTGGATGAGTATATNAA
CCCTTGTATNAGGATGNAACGCAGTAAGCAGANTTCATTCTTAAAAACCAANAGTTCAA
GCAANAACNAACTTGGGGGTNCTGNGATTCAATNGCCTAAAAAANGGGANGNANTGACT
TNNCACNTCNAAGCNTACCAAAAAGTAGTCCTTCCCCAACCTA

Sequence 3865

NTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATTTGGGTTCTATATTT
TGTCANTCAGTTGGGTTTTTAAAAAATTCAAACCTCATGCATGTTACCTACTTGTCTATG
TGTGAATTATTTCTCACAATTTTAATTAATCTGTGTGTATATTAGTTATATAAAGCAATG
GATTTCCACATTCTTAAAGCAGGAACCTATATTCACCAGAAAAGGATCCTCCTGTTTCTC
ATCAAATTTTTTTTCAGCTCGAACAATCCAAGATTGGGAATAGTAAGAGTGGCAAACAAA
TGTTTTCTTAGGGACTTACTGAGAAAAGAAAAAATTTACTGGGGAGAACAGGAGACCTTA
GTAAAATTT

Sequence 3866

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTGTTCTTTATCTGGAGAGATTCCCTCAACTTTATTTTCCAGACTGTATACCAA
TACTTTTAGCAGTCTTATTTTATTTTCAAAGAGATCTTCTTATTCTCAGTCTTCTCTTTC
TTTTCTTGCTTTTTTAAGANACAGGGTCTCACTCTGTCCCCCAGGCTGGAGTGCAGTGGCA
CCATCATGGCTCACTGAAGCCTTGAACCTCCTGGGCTCAAGTGATCTTCCCCTTCAGCCT
CCCAAGTAGCTAGGACCACAGGCACATGCCACCATGCTTGGCTAATTTTTTAAAA

Sequence 3867

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGTANAAATGGGCT
CTCAACCTGTTGCCAGGCTGGTCTCAAACCTCCTGGACTCAAGTAATCCACCTGCCTCAG
TCTCACACAGTGCTGGGATTACAGGTGTGAGCCCTGGCACCCGGCCTGCAGGCACTTTTT
ATGGAATTGTATTACATGTATAGTAGGGACATTGCCATCTTGGCATGTCTATTTATTCAG
GTTTATTTTTGTGTCTGTTCGGAAGTGTTTAAAGTTTCTCCTATGAAGGTATTGCATATCT
CTTGTTGAAGTTTATTCCTANGGGTTTTTA

Sequence 3868

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTCCATTTTTCATCTGCGACACAGAAGGCGG
GGGTTGCCTCTGATCCTTTTGTTATTTGGGGCATGGAAAGTTTGGGTTTTCTTTTGATT
CAGTTCCAGGAAGTCAGCATTAATCACCCCTTAGGTTTCTTGCCTCCATACCCTGTTCTCA
TACCTCATTTCCCCCGAAAGACATGATCCTCATAAATCTTTATGGGAGGTAAAGGGATT
GATAGTCTTTCTTCTGTAAGTCTTTATGCTGACCTGAGGCACAGTCCCTACNTACCT

Sequence 3869

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGTTACTTTTTTTTTTTTTTT
TTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTNGNAANAAAAANCCCCNAAATTNATTNAN
CTAAACNTTNCCCCNGATNNAAANAAAAANANGGCAAAAAATACCTAGCATATNTGCNN
AAGCCCCCNCTCCAANGAACCAAAAAACCNGGAAAAAAAANGNNAAAGTTTTTNNCN
AACTNAAAAAATNNTTTTNCNNTTTTNAAAAAAGTTTACNAGGGCACNNATAAANN
NTTTTTTTTTTTTTTGNNGGGGGCAATTTNNGGGCTCAAAAAAATAAATTTTTTN
TNCCCCCCCCCCCCCCCCCNGGGGGGCTNNGTTTTTTTTNTTTNNTCCNNNNCANNAAA
AAGNGGGGGGGGNGTTTTTNANNGGNGGGGGGNANAAAAAAA

Sequence 3870

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAA
ATACTTTTCTTANTTTCCAGATATGGTCTAAATGTTTTATNATCCATAATGATCTAACT
AATAAGATTACCAAAAAGTAAAAATTCAATTTTACAATATACATTTTTTTTTTAACTAT
TTGGCTTTACCTTTTTACCTTGGTTCTCCTTACTGAAGTCCTCTTGCTTTCACTTTGATC
TGTTTTTTGAAGTCTCTTAATTATTGGCTGGGCATGGNGACTCATGCCTGTAATCCCGGC
ACTTTGGGAGGCCAAGGGAGGTGATCACTTGAGCCCAGGAGTAAANACCAGCCT

Sequence 3871

CCGGGCAGGTACACGANAAGCTCCGAGGATGGCTGAAGTCCAACGTCTNTGATGCGGTGG
CTCATAGCACCCGTATCATTTATGGAGGCTCTTGAGTGGGGCAACCCTGCAANGGAAG
CTTGGCCAGCCCAGCCCTGATGTGGATGGGTTTCTTGTGGGTGGTGCTTCCCTCAAGCC
CGAATTCGTGGGACATTCATCAATGCCAAAACCAATGNAGCCCCCATTCATTCTTTCC
CTACCCTTTCTTGCCAAAGTCCAGGTGACTAATTCANNCCCCAAGAANGCCCCANNTTAA
ACTGGCGCCCTTTTCCCNTGCAATATTGCCTTTCTGGATNGGGTGGTCAACCCTTGGCTT
CCTTTTCTTGGTNGGGCCCTTTTATTCCCAAACTGNNNATTCTTTTNCCTTTTAACTT
GNTTTAATTATTCTTTTCCACCCCTNNTAAAATTNNGGTTTTGGGGGAACCCCAAAGA

Table 1

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GCGCAANATACCCCTTTTCTTTCCCNACCTTTAACCTTNATTAAAANTGGGGTTTTGGG
GA

Sequence 3872

CCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAACTTG
GCTAANTTGCCCTTTATTAACGAAAACATANAGCTTTCGGTCAATTCCACCACGGANAAC
ACAAACCANAAATAAAAACCCACACCAAGGGCTATTTCCCAAGCTGGGGAATTTGAGAAC
ACACGGGCANAGTTCACGCCACACAACACTGAGGCTCGTCCTTGGGAGGCGTTCACAG
GAAGCAATCACGAGCGCCAAGCCACCCACAAGGCANTGCGGCAAGGCTCCCGGGATCCTT
ACAGGCATCCAAGCGAGGTACCT

Sequence 3873

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTATTTCTAACAGG
AATTTGCTATTTCAAATATATTATCTGAGATATCTATATATTTATATTTTGAGATACTAT
ACAAATTTGAGCCAATGACATAGAATTTTACAAATCAAGAAGCTTATTCTGGGGCCATTT
CTTTTGACGTTTTCTCTAAACTATTAAAGAGGCATTAATGATCCATAAATTATATTTATCT
ACATTTACAGCATTTAAAATGTGTTTCAGCATGAAATATTAGCTACAGGGGAAGCTAAATA
AATTAAACATGGAATAAAGATTTGTCCTTAAATATAATCTACAAGAAGACTTTGATATTT
GTTTTTCACAAGTGAAGCATTCTTATAAAGTGTACATAACCTTTTTTGGGGAAACTATGGGA
AAAAATGGGGAAACTCTGAAGGGTTTTAAGTAT

Sequence 3874

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCATGGCGCTGGTATCT
GCTTGGNTTCCTGGTGAGGCCTCAGGTAGGATTCAGTCATGGTGAAAGGTGCAGCAGTGG
CAGGCACATCACATGGTGAAAGTGGGAACAAAGAGAAGGGTGGAGGTGCCACACACTTTT
AAACAACCAGGTCAGGTGTGAACCTCACTCATCGCCAAGAAGACGGCACTAAGCCATTCAT
GAGGGATCCGTCCTGTCCCCATGATCAAAACACCTCCCACCAGGCCCCACCTCTGACACT
GGGGATCACATTTCAACATGAGATTTGGAGGGGACAAATATCCAAAACATATCAATATGT
TTCATATGGAAACTTTACAAGTTTCAGTCCCAAGATGGCTGCAGAGGCTCCAAGTATCA
CATTCACCCACAATAATTGGCTAAAGACTGAAAGGAGGGGAAAGGGATNTTTCCTTTTC
C

Sequence 3875

CCGCGGTGGCGGCCGCGGGCAGGTACAGTGGCACGATCTCGGCTCACTGCAACCTGCG
CCTCCTGGGTTTCAGGCGATTCTCTTGCCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCAC
CCATCACCATGTCCAGCTAATTTTTGTATTTTATAGTAGAGACAGGGTTTTCCCATGTTGG
CCAGGCTGGTCTCGATCTCCTGACCTCAAATGATCCGCCACCTTGGCCTNCCAAAGTGC
TGGGATGACAGTTGTGAGCCACCACACTCAGCCTGCTCTTTCTAATATTTTGAAACTTGT
TAGACAATTTGCTACCCATCTAATGTGATATTTTAGGAATCCAATATGCATGGGTTATTA
TTTTCTTAAAAAAATATTCTTTTACCTGTACCTGAATTTAGTA

Sequence 3876

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTGAGTAATCTTTTTATCTCTTCCAGGCACAGGACTGATGCAGCCTGAAATCANA
CATAAAACCAAATCCTGCAGGTTGCTGAATTACAACGCAGGTTGAATTCATAGGATCTCC
AGGTCTCATATGCAAAAACATGGCTACTGATTAGGGAACAATGGGACCTTGAGACTAGGA
ATAGGAACATCAGGATTGATTTGGATAGATCTGAGCACCTTAAACCCCAACCCTCACTGA
GTTTCCCCTGGCAGCANAAGCAGCCCTTTTTCCCCAGTCTATGGGGCTGGTCCTGCCTGA
CTTGGGGACCCTCTCACTGTTAGGCTAACCTT

Sequence 3877

GGCGAATTTTAGCTCCCCGCGGTGGCGGCCGCGGGCANGTACGCTTCCCTTGGCACCA
TGTTATTNCATCTGTGCTGGGCTGAATAGTGTCCCCCAAATGAATAATGTCCCCCA
AAATTCGTGTATACCCTGAACATTAGAATGTGATCTTACTTGGTATTACTTGGTATAGGG
TGTTGTAGAAATAATCAAATAAAGATGAGGTCATACTGCATCAGGGTAGACCCTAAATTC
AATGACCAGGATTTTTATAAGTGAAAGGAGAGGCGGATTCAGAGAAAAAGACACAGACAC
ACACAGAGAGAAGACAGCCATGTGAAGACACAAGCATAAATTGAAGTGACACAGNTACAA
GCCAAGGAATGCCAAAATGCTGGTAACCACCAGAAGTNGGAAGAGGCAAAGGGGAATT
T

Sequence 3878

CCGGCAGGGACTTTTTTTTTTTTTTTTTTTTAAATACATTCTAATTAACAGTCAACATAC
AGTCCTTGCTGGCTACAGAAAAAATGGANACTTTTAGNCCATCACCTTGNGGNCTATTC
CTTCATGCTAAA

Table 1

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Sequence 3879

AATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATACAAGTCATCCATTAAAA
CAANGAANNNGAATATAGAGTGCCAGCAGCAACTTAGTATTTTCTAAAAAGAACATTTAT
TATTTATTTTATAGCCTGTCATTTTAATTCTTCAAGAGATTTTACTGCTGGTATTTTAA
TGCACTCCTCTTTGTAATTTCAATTCAAGCCATTTGTCTAAAGTCATTTCTTTGTTTTTG
GGAGATGGAGTCTTGCTCTGTTGCCAGGCTGGAATGCAGTGGCCGTGATCTCGGCTCAC
TGCAACCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTATCTGGG
ATTACAGGCGTGCACCACCATGCCTGGCT

Sequence 3880

CCGCGGTGGCGGCCGAGGTACTCTTTCCCTTTATTTCTCAGACTGGCCGACACTTAGGGA
AAATAGAAAGAACCTATGTTGAAATATTGGGGGCGGGTTCCCCGATACTTTTGGACATA
TATCCAGTAGTGGGACTGCTGGATCATATAGAAGTTCTATTTTATGTTTCTCACAAACC
TCCATACTGTTTTCCATAATGGCTAAACTAATTTACATTCCTACCAACAGTATATATAAG
TTCCTCTTCTCTGCGTCTTTGCCAGCATTTGTTATTTTTTGTCTTTTTTGATAATAGCCAG
TCTAACTGAAGTGTATGGAGAACTCCAGCTGGGCCCAGAGATTCTGCAGCGGGAAAAT
CCAAGGCTTATTTATGCCAGGCT

Sequence 3881

CCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGGG
AAAGTAATGCTTTAAGGAGGAAGCTNCATATGAATAAATTGAAAGTGTCTTTCTAAGGCA
ACTGTGAAACCTCCAAAACAGGAACCTCTTTATAACAAGAACATTCTAAAAAANGGTCAG
TATATGCTTGACTGGGCCTTAA

Sequence 3882

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTGATGATTTTCAGTG
TAACCNTTTACGTAATGATTCTGCCAAATGAAATATAATGATATCACTGTAAAACCGTTC
CATTTTGATTCTGAGGTACTCTACTAACAAGCATCACATATTTGTATTTTGCCCTGATT
AATATGTTGGCTTCGCTTTCAGGGTTTTTAATGACCACAACAAGCAAGCATGCAGCTTAC
TGCTTGAAAGGTGAGGATTGGAAATGTTGGGACTATTATAATTGCAGAATACATGATGAT
CTCAATCCAACCTGAACTCTCTCACTGATTACTTGATGACAATAAAATATCTGATATTCT
GCATTCCCATGTAGCATTTTAATTGAAGTCTGTAAATGTGGCTAAAAGTCTTGTCTTATT
TT

Sequence 3883

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTT
GAGTTTTNTTTTTATCTCTTCCAGGCACAGGACTGATGCAGCCTGAAATCAGACATAAAN
CCAAATCCTGCAGGTTGCTGAATTACAACGCAGGTTGAATTCATAGGATCTCCAGGTCTC
ATATGCAAAAACATGGCTACTGATTAGGGAACANTGGGACCTTGAGACTAGGAATAGGAA
CATCAGGATTGATTTGGATAGATCTGAGCACCTTAAACCCCAACCCTCACTGAGTTTCCC
CTGGCATCANAAGCAGCCNTTNTTCCCCANANNATGGGGCTGGC

Sequence 3884

CCGGGCAGGTACTTTTTNTTTTTGTTTTTTTTTTTTTTGATTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTNTCNGCTCANTTCTTTATNGATNGGGGTGCCGTTTTCTNTGGAAGCCT
CTTAANAAAANAACACAGNGGCCAGGCTGGGNGGAGCCCNCCCCCATNAAATNCCT

Sequence 3885

GACTTTTTTCTTTTTTTTTTTTTTTTTTTTAAAGAATGTTTTTATGGCCGGGATGGTGGCTC
ATGCCTGTAATCCCAGCACTTTCAGAGGCCAAGGNGGGAGGATCACCTGAGGCCAGAAGT
TTGAGAGCAGCCTGAGCAACATAGTAAGATGCTGTCTTTATTTAAAAAAAAGATCTTCT
AGAGAGATCTAGTAAAATATTTTATAGATGATACAATTGGATTCTAAGGTTGGTTTCAGA
ATCATCTTGGGGAGAAGATGGGCAGGAATGTANTAGAGGTAAGTATGGCCATGAAT

Sequence 3886

GGGCGAATTTAGCTCCCCGCNNTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT
NTTTTTTTTNTTCCGAACTTCTTCAGGGGCCTGNTCACATCCAACAGAACTATCACTC
CAAGAGNGATGTTTCTCTCCAGTAAGTTGGATATAAATGTCAAGCAGGNGATCAACCACT
GCCAATAGGCTAGGATATCTGCTCTGAANAACNCATTCAAGTTCTCTCTTGNCCAGGTTA
TCCAGGNGAATTTTGGTCCAATATTTGTCTAGCAAAGTAGCATGACTGNTTAGCGGGCGA
TACCAATTTCTCCACAGCTCAAGAGTCTCCTGGNTGCAAAAAACTGAAATCCAGGGGCC
ACTTTCAGACAGGCACCTNGGCCGNTNTAAACTAGGGGATCCCCCGGGCNNNAGGAAN
TTNGAAATTNAAAGNTTTATTCTGAATACCCGCNCGNACCCCTCNNAGGGGGGGGGG

Sequence 3887

Table 1

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ATANGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTGAGACGGACTTTTGCTCTTTTGCCCANACTGGAGTGCAGNGGCGCAATCTCGGG
TCACTGCAAGCTCTGCCTCCTGGGTTCATGCCATTTTCCTGCCTCAGCCTCCTGAGTAGC
TGGGACCACAGGAGTGCACAATTACACTCGGCTAATTTTTGTAGTTTGGNGGANACAG
GGTTTCACCATGTTGCCCAGGCTGGTCTTGAATTCCTGAGCTCAAGNGATCCGCCTGCCT
TGGCCTCCCAAAGTGCTGGGGATTGCAANGCGTGAGCCACCACGCCCCGCCTGGCCTGCTN
TTGGNGCTTTACATTTATGGACTTATTTTTCTGAACCCCGNGTNCCTTCCCGGGGCGGG
CCGNTTTAAACTANGGGGGGATCCCCCGGGGCTGNNANGAAAATTTCCAATNTCAAAA
CTTTATTTCGATTNCCCCNTCCGAACCCTCGNGGGGGGGGGGG

Sequence 3888

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACTCCATG
TTGGTTGGTAGTATTTTAAATCTGAAGCATTTCAGAGNGCTAAGGCAATTCAGACTGCA
CAGCTGTCAACTCAGGAGTCCCATTAACCTGACTCTAAAAATTCCTAAAAGAAGGCATGA
TTTATTATAAGCAAATGGCTAACCTGGCTTTTTTGGTAATAGAATTCCAAATGAAAATAA
AATTATACANGATACACATTGTTTGGATTTTTTAAACTCTATTAAATGTGTTAAGTGGT
TGTGAATATGAGGAATAATTAAATGTTAACCCAGCTGATTAGTGAACATATAAGAAAAT
GGGGGGAAGT

Sequence 3889

CCAAAGACAGGTCTACAGGTAATAAAATTACCTTTGATTTANTTTCTCAGAAACAAGNCT
TTATTTTGCTTTCATTTTGAACGTTTTTGACAGTAACAGAATTCAGGTTGCAGGGT
TTGTTGTTTATTTTCATTAAGGAATTTANAGATAATACTCCATTGTCTTATAGCTTGCATA
GTTCTCACCAGANATATGCTGCCATTCTTTGTTTCATGTGTATGNATTATCTTT

Sequence 3890

TTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGTTAAGCATNTAAACGTTAGATTTC
CAGAGGAAGGAGGAGTCCCGGACAGGAATCATAGCGTTGGTGTCACTGTTTTTCATCTAA
ATGAAAAATAAAAACAAGTCATACATGAACCTGGGGAAGTAGATATTATAATTATTTTA
GAAATGAATAAATTAATAATTAATATACATAAAAGTCACAGGGAACCTTTTAAATTCAG
TTCCCCAGGACTAGAGAACTGCAGTGGATCTGGAGAGGCCAAGGACCTAGAGTGATAACA
AGCACCCCAGTTGATTGTTGAGACGTGGTCCCAAGGTCCTCTCTGATTACTTAGGCTTG
GCAATGCTTTTCAAGAATTTGAAGCAANATGGCATTTCTCACAAAAGATCACCTTAG

Sequence 3891

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTANTAAAAACCGGGATTTNACCATGTTGGCCAGGCTGGTNTCNAA
CTCCTGACCTNAGNGATCCCGCCACCTNGGCCTNCCAAAGTGCTGGGATTANAGGCGTG
AGCCANNATGCCCGGCCNAAAGTNAANAATTTTTTCCAAATNTTTTTTCTCAAAANNTTT
AAANNAAAAAACTTTTNAAACTGCCCAAAANTTTNGAAAATTNATTAAANGTAAAAACTN
GCTTTTNTTTTNAANTNGGGGGGGTAAAAANAANGNCCCNAAAAAAA

Sequence 3892

TTTTTTTTTCTTTTGTCCANATNATGGTNATCACTATGTTGNCCTGGCTGANCTCAAANG
TTNGACCTCAAGGGGATCTTCTTNCACAGCCTCCTTAAGTTGCCTAAGGATTATATTGC
CATGANANCACCAATGCCCTATTGGGAAGNAGGGATTANCATTTATTTTNCAAAAAGT
CCTTTAATTTCTTAAAGGANCCCCAATTTNANTTTGGCTCTTTTGGGGCCCTAAAAANT
AGACCTNAAAAANAATAAANAATTTCCCTTNTTGAAAAACNTTTNTNTNTTATGNACCA
AAAAAATTTATATTCGCGNGNCCATTTGGAATNGAAATGNAAGAAAGGAAAGGGGGGGG
GTNTTNTGGAAAAAACNTTTTCNNTAAAAATNAAAGGAAGGTGTGAAAACCTTTTAAANA
GGGCCNTTTTTTAAAAANAAGNGGAGAAGAAAAAACCTCCTCANNNTCTNTTTTT
CATCAAAAAAACC

Sequence 3893

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCACGGTACAACACTTG
GCAAGGTAACATAATTTCTATAAGTCCAGGCTTCTCACCTGCAAAATTGANATAATAANG
ATATTGATTGATANGTATNGGCTGATTT

Sequence 3894

AATTTAGCTCCCCGCGGTGGCGGCCGAGGTACATATCAGTTATTTATGAGATTTTTTTTT
ANTTATTTTCATTTTTTTTTCACGACTTTTTCTGCCATTGAATTAGCCTTTTTCTCGTGCAC
TGGTGGTCAAGAAATACATGCCATAATAAGATGGCAGTTAACTTCATCAGTATTTTTTT
TTTTTAAATAAGATTATTTAGCCAGGCACAGTGGCTCGCACCTGTAATCTGAACACTTTG
GGAAGGCCAAGGCAGGAGGATCACTTGAGGCCAGGAGTTCAAGACCAGCCTAGGCAACAT

Table 1

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NATGAGACCCTGTCTCTACAGGAAAAATGAAATTT

Sequence 3895

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATCTTTGGCCTT
TCTCTTGACATTTTCGTATGTCAAAAAGCAAAAACCTTCATGTATTTCAATCTAGTGAT
TACTTTTTGCACCATAATTTGTTTTTTTACACCACAAAAGGAGGCACCTTTCAGTATCTGT
AAAAGGTATTTAATCCTAAAACATACTTACCTAGAGAATAATTAACAGAAATCAATAC
AATCTAGTATCTATTAGGAAATTAAGAGTTATCACTTCTAAAAGTCATTTGAAAGTCAAT
GATGTTATCTGGTCAATGGCAGGAAATGGGAAGTGAACAAATATAAGAACTTATGGGAT
TTCCTACACGGAGACAAAAAAGATATTCCTTTATGTTGTTTAAAAGTGGCAGCTGCTCT
TTCTTTATTCCATTTTAATCAATGAGTATTGTTTCAAGGTTTTCTTTCTATTTTTCCTT
AT

Sequence 3896

TACTTAGGGCGAATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTCTAANACATCTTGTTATAGCATCTCTGCATTTATTCTAATTTTATCTGTGCACA
NAACCTTAGCTTCAAGCTCCTTGAAGGGTAGCATCGTGTCCCAGCCTACACTGTCACACT
CAGGANAAGCACCCAGTAGATGGNGGCTNTGTATNTACCTACAGAGTGCCACTGAGGAGC
ACAG

Sequence 3897

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCATGTTAAA
AGACATTTATTATCTTGTTTTCTGTCTATGGGAGTTCCAGAAAAAGTTAAAACAGACAAT
GGGCCAGGTTACTGTAGTAAAGCAGTTCAAAAATCTTAAATCAGTGGAAAATTACACAT
ACAATAGGAATTCTCTATAATTCCCAAGGACAGGCCATAATTGAAAGAACTAATAGAACA
CTCAAAGCTCAATTGGTTAAACAAAAAAGGAAAAGACAGGAGTATAAACTCCCCAGA
TGCAACTTAATCTAGCACTCTATACTTTAAATGTTTTAAACATTTATAGAAATCAGACCA
CTACCTCTGCAGAACACATCTTACTGGTAAAAGGAACAGCCACATGAAGGAAAAGTGA
TTTGGTGGAAAGATAATAAAAATAAAACATGGGAAAT

Sequence 3898

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAACTCATGTGCTGGAAGACAG
CAAATCTTGGAAGTTTATTATAAAAAAAGATATTTCCGATAGATTCTTTGTTGTCAT
GGGCAAACTGTATATCCACACAGGACTGTTAGACTCCTAGCCAATAAAATCAGACTAAG
TCCATAGGGATAAGGTAAAGTGTAATAAATTTCCATTGGGGAAGACAGGGCTCATGGCCC
GTGTATCAAGGTCTCAAGCTGAGCACTGGAGAAGTCCAGGGAACACTGTTTCATACAGGCT
ATGGTGTGAAGGAATTCCTCTGTAGGTATGCCATACTTCAGTCTCTTAAGAAGCTGATTA
GCATGAAAGACTGGAAGCTGATTATGGNCAATTCAGTTNGAATTATTCCTTTCTATTTTG
CT

Sequence 3899

TTTGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAACCATTTTTCTACAAATAGTTTGT
TTTTTGTTGTTGTTTCTTTTTTTTTGTTTTGTTTTTTTTTTTTTTTTTGCGTTCGCG
GGGTTGTAAAAGAAAAGAAAGCAGAATGTTTTATCATGGTTTTTGCTTCAGCGGCTTTAG
GACAAATTAAAAGTCAACTCTGGTGCCAAAAAAGAAAAAANGTNCC
TGCCCG

Sequence 3900

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAACCTGGAAGAAGGACT
TACNTACNAGTCAAACAAAGGCACATTGCCTAATGAAACGTTAACTTTAATGCGTCCAA
GGTTCCATACCTCCAAGTTTTATGTAGTCTGAGCTTTTTCATACTGCCAACTGGGTATA
TTTAAATTCATTCTGTCTTCATATAACACAATACACCTACCTCCTAAGCAACAGAAGCAT
CCAACCTGCTTATCAAATATGGCTATCTACTCAAACGTTAAAGAATCTAAGAAAAAGAA
AGGTAAGTACTAGCTCCAATAACAAAATATAGATGTTAGTTAAATTTTTTTTGCTTAGAATCT
CTTTGGAAAAACAAAAGAAAAAACTCATTAGGGATGTTTCTCTTTCTATATAGAATGAT
AAGCCC

Sequence 3901

CGAATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGGCAGGTACNGCTCCCAGNCTACTGAN
GTTTTAGGATGGTCTCGGNGGANANGCCCACTNGAATAAACTGAGTCCAATACCTGTACA
CAGNTATGTTTAACTGGGCTCT

Sequence 3902

GGCCGAATTGGANCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAGAGTTTTCCAAG
TATGTTCTAANCACAGAAGTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTT

Table 1

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GAATACCTTAAGAAGTTACAATTAGCCGGGCATGGTGGCCCGTGCCTGTAGTCCCAGCTA
CTTGAGAGGCTGAGGCAGGAGAATCACTTCAACCCAGGAGGTGGAGGTTACAGTGAGCAG
AGATCGTGCCACTGCACTCCAGCCTGGGTGACAAGAGAGACTTGTCTCCAAAAAAGTT
ACACCTAGGTGTGAATTTTGGCACAAAGGAAGTGACAACTTATAGTTAAAAGCTGAATA
ACTTCAGTGTGGTATAAAACCGTGGTTTTTAGGCTATGTTTGNTGATTGCTGAAAAGAAT
TCTAGTTTACCTCAAAATCCTTCTTTTTCCCCAAATTAAAGTGCCTGGCCAGCTTGTCA
TAAAATTACATATTTCTTTTGGGTTT

Sequence 3903

CCCGCGNGGCGGCCGCCCGGGCANGTACTGNGGCCCNCAATGNCCNTTTTTTNTGNGNGT
GGCACCTGACAGTGCTTTGTGCCACTGTGGAGCAGGTGTTACTCCCTCATAACCGAATTTT
AGGATTATTTTATTTATTTTCAAGTGAATAATGTCAATGAAATTTTGATAGGGATTGCATTG
AATCTGTAGATNGTTTGGGGTTGTATGGACATTTTAACAATATTAATTCCTCCAATTCAT
GAACATGGGATGTCTTTTTTTTTTGGCACCTGANCTCAGATATGGGACAGCTTCTAATTA
TTTGNATNCTTCAATNTCTTTCACAAATGTTTTATAGGGTTTCAGCATACAGANCTTTCA
CT

Sequence 3904

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCCCCCAG
GCCAGATAATTTATTTAAAACTTTTTTTGTAGAGACAGGGTCTCACTATGTTGCCAG
GCTGGTCTCAAACCTCCTGGCCTCAAACAATCCTCTACCTCAACCCCCCTAAGTGCTGGCA
TTACAGGCATCAGCTGCCATGCCTGGCTACAAATCTTAATGTTTTCCCATGGCTTCTTT
TTCTGGCGTTCTTTTCTCAGGTAATGGAAGTGGGCAGAGAATGATCCTTTCCCTAGGCTC
CAGTGTGTAAGAATTAAAGAAAGAGGAAAGAAACACAATGGCTTGATGGTTCGAGGACAGG
TTTATTTTAAAGAAAACAAACCAAGAGTGGCTTCTGGCTGAGTTAGATCAGAGGCATGC
TCTCTTACAGACTAAGAAGTTTTTAAGG

Sequence 3905

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCCCCCAGGCCAG
ATAATTTATTTAAAACTTTTTTTGTAGAGACAGGGTCTCACTATGTTGCCAGGCTGGT
CTCAAACCTCCTGGCCTCAAACAATCCTCTACCTCAACCCCCCTAAGTGCTGGCATTACAG
GCATCAGCTGCCATGCCTGGCTACAAATCTTAAGGTTGNTCCNTGGNTNGNTTNTNTGG
CNTTCTNTNGTCAGGGANTGGANGTGGGCNGANAATGATCCTTTCCCTAGGCTCCAGTGT
GTAAGAATTAAANAAA

Sequence 3906

GAAGCCCTTTTGTACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCC
GGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTCTCGTATGGCTTGAAGCAAGAT
GATACTAATAAAAACCAGTTGGGATTTANATGCTATCACAAGACAGAGCTTCTGAAATTA
CTGAAATTTTGCCATTAAATCCCTCAAGGAATTGTCTCTATTTACAGATGATGTTCTT
TTAAAAAAAAGCAAAACAAAATATCCATTTTTCACCTTGNGATCTCTCCCTTTGTGTTT
TGAATATTGTTAAATGTANCATGGCCTTAGCCTGGTCATGGNGCTTGATCACCTACCT
CAGTTTCCCTCACAGNGACCTCCACCCCTG

Sequence 3907

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAAAT
AAAGCCTTGGAATTGAAGAATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAA
TCCAAACAAAAGGACTATGAAGAAAGTTCTTGGGATTCTGAGAGTCTCTGTGAGACTGTT
TCACAGAAGGATGTGTGTTTACCCAAGGCTGCGCATCAAAAAGAAATAGATAAAATAAAT
GGAAAATTAGAAGGGTCTCCTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAA
GTTTCTATTCCAATAAGCCTTAGAATTGATGGACATGCAAACCTTCAAAGCAGAGCCT
CCCGAGAAGCCATCTGCCTTCGAGCCTGCCATTGAAATGCAAAGTCTGTTCCAAATAAA
GCCTTGGAATTGAAGAATGAACAAACATTGAGAGCANATGAAGATACTTCCCCATCAGAA
TCCCAAACAAAAGGGACTTTTGAAAGAA

Sequence 3908

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACCACGC
CCAGCTAATTTTTTTTTTGGTATTTTTTAGTAGGGACGGGGTTTCACCATGTTAGCCAGGAT
GGTCTCGATCTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGTTGAGATTAC
AGGTGTGAGCCACTGCACTCAGCCCAAAGAATACTTTTGATGTTCTCTTTGTTTCATATT
TGTTTTTTGATGTCCCCCTTGATCATGTTCTGTGTTTACCCTCATGGCCGGCCTCTCCATC
TNCTAGGCAGCCTGGCATCCTCGCTACAACCTCATTGTTGTGGGCCGATACCCAGATCCT
AATTTCAAAGTTGTACCTTCGGCCGCTCTA

Table 1

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Sequence 3909

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCNGGGGGCGAAGTTCTGTGCTGGT
CNTTTGAGTAGCAAGTGGCCATGGGGAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCT
GTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAGGCTTACCAGAAGCTCTGATT
TGAAGAGAATAAATGGATTTTGCACAAAACACAGGAAAGTCCCGGAGCTCCATCCCGCA
CTTACAACATGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGG
TCAGGTCGCTTCAAAAAGGAAGATGAAATCCCAGAGACTGTNTCGTTGGAGATGCTTGAT
GCTGCAAAGAACAAGATGCCNAGTGAAAGATCAGCTATCTAATGATTTGCCCTTGACGG
TGGTAGGATGCATCNTTCANGGTTATTGAGGGCAAN

Sequence 3910

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGAG
AAGATTGAGAAGTATATGCAATGTAAGTGATTTTAAAAAGAAAAGCAACAGGTTTGACT
TGAAGCTATATTTTTCTTTCCGTTTTTTTTTTTT

Sequence 3911

TTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTGCTTGTNAATACTTCTAACTTAAGAGCAAGCAAACATATTTTCAGGTTTAA
TTTTATGGAACAAACACTCTGCTTGTGAATTGTCCACAATATTTCCATAATACTAACAC
ACTATCACTCCATCAGGTTTCACTACACAAAGTATTGTGAAACGGAGGTGGAAATTTTTT
CCAGGTGTTTANACAAGTATTTAATGAAGCTGAAGCAATATGTTCTTTGAGCATTTAAAA
ATATTTGAGATTAATTTTACCAGATGATTTCTTAATCAAGTAAACTGGCTTAGATAAGAA
AAAGTCAGAATATTATTAATGAACCTAATGTTCTCTCATGTTTGAGATCAGCCAACAGGC
CACTTACTTATACCCTA

Sequence 3912

CCGCGGTGGCGGCCGCGGCATTTCTCCAGGGATCTCTGTGCTTCCTTTTGTGCTTCCTGT
GTGTGTGGATATTTAAAGGGGCTGGAAATGTGCAAAAACATGTCACTACTTAGACATTAT
ATTGTCATCTTGCTGTTTCTAGTGATGTTAATTATCTCCATTTTCAGCAGATGTGTGGCCT
CAGATGGTAAAGTCAGCAGCCTTTCTTATTTCTCACCTGGAAATACATACGACCATTGA
GGAGACAAATGGCAAGGTGTCAAGCATAACCCTGAACTTGAGTTGAGAGCTACACACAATA
TTATTGGTTTCCGAGCATCACAAACACCTCTCTGTTTCTTCACTGGGCACAGAATTTTA
ATACTTATTTTCAAGTGGGCTGTTGGCAGGAACAAA

Sequence 3913

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTTGAAGTCAACTTCTA
TCAACTTTTGGCCAGGCCCCGTGGCTCATGCCTGTATAATCCCAGCACTTTGGGAGGCCGA
GGCAGGCGGATCACTTGAGGTCAGGAGTTCAAACACAGCCTGGCCAAGATGGTGAAACCC
CATCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCAGGCGCCTGTAGAATCC
CAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGGTGGAGGTTTCAGT
GAGCTGAGATCGTGGCATTGCACTCTAACCTGGGCAACCAAGAGTGAACTGTCTCAAAA
AACAACCTTTTATCAATGTCTGCAAAAAGAAAAGTCTTCTGGGGATTTATAGGATCAATTT
AGGGGAGAAATGACA

Sequence 3914

CCGCGGTGGCGGCCGAGGTACCCATCTTGTCCCAAGTGCCAAGCTCTTCAGTTGTTTCTG
CTACTTAAGAAAGACACCATCTAATCTGCCATATAGAGAGCTTAAATGGAGCTGTAAATA
TTTGGGGGAAAGAGTTTGGTAGTGTTAGCCTGGCCTGTCTTCCACTGTATTATAAGTAGC
TGTTATCTGAAACAATTGAGAACACAGGGGAAAAAAGACCCAATTATGCACCAGGAAGT
CCAGTGCCCCATTTTTGGAGAAGGAAAGTGAGAGGGCATTGAGTTTCATTGATTGGGTCT
CCGTGGCAGGCCAGCTGCCCCCAGGAAGGCCTGGTATTCCTGTCTCTCCGTGAACCTG
CCTGAAAGGGATATAGGAGTTATTGGGTAA

Sequence 3915

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTANACAGGGAGATGGGGTTTCACCAT
GTTGGCCAGGCTGGTTTGGAACTCCTGACCTCAAATGATCCATCCACCTTGGCTTCCCA
AAGTGCTGGGATTACAGGTGTGAGCGACGATGCCTTGCCAAGATATTTCTGCTTTCAACA
TGCTTACCTGTTCAAGACTCCACTGGAACTAGAGCTTNTTTAGGATGGAAATATTTGTG
ATATACATTTCTAACCACAGCATNTATGAGGGAAAAAGANAAGGAGGTATATTTTAGGTT
AGAAATAAATTTCGATATTATAGACTCATACCA

Sequence 3916

AAAGGCCGAATTGGANTTCCCCGCGGTGGCGGCCGAGGTACTGGCGCGTGTGGCTGATGT
NCTGATGCCACCNTTTTTCTTGGAGGGGACGTGCCCCAGGNGCACTGCCAGTCTTCTGCT

Table 1

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GACCCCGCAGCCCCAGAGCACACCTTGTCTCGTTCAGTCCAGTTCACAGGAGGGCTGAAC
AGTGGGACCAGGTCGTTCTGTGAATTCACACTTAATTTTTCTCTCTTTTAAAATCTTTA
ACATGAAGATGGCTTTTCTAACTTTAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCCG

Sequence 3917

CCCGCGGTGGCGGCCGCGGGCGGNTACTTGGTATTGTATTTTTTATAAATTTTNTTTTT
ATGTAAAGCTTANAATTTGATTNACAGGGACCTTGCTGCAGNAAATACCATCTCAATTTT
GTGCCACTGGTTCAGCTGTTAGCACAGTAAAAAATCATTTGTATCAAAGGGGCAAATGC
TTTATTAAGGTAGTAAAAGGGAACATTACTTCTGCTTTTAGGAAGTTACTGCAAGCACAA
GCATTTGTGCTTTTAAGCAAATTAAGTAGTAAAAGAAAACTTAAGTGAAACCTTTGCC
ATCTTCATGTTTTATAATATAAGCTTACCCAACACCAGTTAAGCCATGGTTAACCTTAA
ATGCCTCATGCCCCAGTTCAGCAAAAGGAGGAAAATGTGCCTGCCTCACAGCATCAGTCT
TTTTAAAT

Sequence 3918

AGGTACTTAGGGTAAGCACTAACAATATTATTCAAATGTTATATAGAGTTCAACTGTAT
ACAATAGAGCATTTATTAAAGTGTGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGGCA
GGCGGCTCACTTGAGGTTAGGAGGAAAGCAGACTGGCCAACATGGTGAAACCCCGTCTCC
ACTGTGGTCCCAGCTACTTAGGAGGCTAAGGTGGGAGGATCACTTGAGGACAAGAAGTTG
AGGCTGCAGTGAGCCAAGTGTGTGCAATTGCTCTCCAGCCTGGGTGACAGAGCGAGAC
TCTCAGGAAGCCGCAGTGTTAGTTGCCTCTGATTTTTGACAAAGCATGGGAAGATGGGGG
GCTGTTTCATACAGGGCAAGCTTCAAGTGTGAGTCAAATAAAAACATCCTTGACCCGTCCT
TTTAGGGGAAC TACCCAGCAGGNTCAAATAATNGACAGTTCTCTGGGGAATGGGGCAT

Sequence 3919

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGGCAGCA
ACCCAATCAGTGACATTTGGGCTATCCACGCGCTGCGGATCGTGGCTAAGTATCTGAAGA
GGGCCGTCAACAGCACTGACAAATGAAGAAGAAGTATGAGTCTCAGGGCACCTTCCTGGA
GTGGCCCTCGCCATCCAGGGACCAGCGCTTGCCCTCCCCCGGCGCTTTTACATCACATGA
GCAGCTGACAGCGTATTTATTATGCCTTTGCTGAAACAGTTGATGAGAAATATGTTTCCC
TTCAGTTTTTCATTTAGAAGACAAGGGCGGTCTGTTGAATAACTTGCCTGATTTTTCTTCC
TACCCGAGTAGCATTTCTTTTTTTTT

Sequence 3920

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTTACTTTTTTAACTTCTTTTTAAGTAGCCCAAATGACACAAGACCAGTATTGA
CACATNTCATAAATAACAATCTTGACAGATACACTTTTTTTTTTACTGNGTAACTTTT
TTTTCCAATTTAGAGAACCGCATCCTATTCCATGCTGCTTACCCGCGTACCTN

Sequence 3921

TTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TCCTTANAGACATGGCCTCGCTATGTTTCCCAGGCTGCAGTCAGTAGCTATTCATTCACA
GGCACGATCACTGNGCACTACAGCCTTGAACCTCTGGGCTCAAAAGCGATCCTCTCGCCT
NAGCCTCACCACATCTGGCTACTGTTTATATTTGGTGTAAGGACGGGATGTTTACTTTCT
GGAAATAAGTTAGAGTTGTTTCATAATTGAAGTTGCAGAATGAGGAATTATTGTCAATAAT
AAACATTAAC TCAAAATCCCTTCATTAAC TGTATTGCTTAGAATTAAAAGGTGAAAT
GTATAGTTAAAAAAATCTACATAAACTGGATGGTGCAATCCCTATACTTCACTTCAA
AGCCTGTTGCATCCCAGGAGTTAAAGTNTAATTACCAAATCAGTACCTTGGGCCGTCTA
NAACTANGGGGATCCCCCGG

Sequence 3922

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGTGAAACCCAACCTTCA
GGCCTAAACAGCCTGAAGGCTGAAAGATTGGACTGCTGGTCCCAGATGAAAAACACGAC
CCAGAGGGAGAACTGCCCCCTGTTTGTCCACCCTTTCCCAACTGATTCTTTCTGAATAATG
CCCACATGTGCACTGGAAGGAATGGGGTGGAGGTGACCATGGAATTTGCACCTTNTGCCA
GGGGGGAGGGAGTCTNGGCTCTTCANCTCATGTNNGGGGGGCCCTGGATATTTCAATTC
TNTGAAGNGGGGNNGGCCNTTGGGCNAGGNACACCCCTCACTTTTGCTGAAAAGTTT
TTTTTTTTTTTTCCTT

Sequence 3923

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAANGATGA
AAGTAGAAGTCTTTTTTGACAAATTCAGTTTTAAAGTTGAGTTAAAAACTGGTTGATAA
GATTGAGATCTATTTCTTCTAAAGAGTGGGGAAATTCATCCTCTGGTTTGTCTAACTTTT
TTTTGGAGGGNAAGCAGGAAATAATTAAATTGGGGCCTCTTTTTGCAGTTTANGGAAAA

Table 1

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ATTT

Sequence 3924

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCCAGGTGGCTCATATTTAA
CTTCCCCCAGCTTCCCAATTCAAACCTGGGGGGAAAAAACTAAATCATTGGGAGTTACTTG
CCAACCTTGGAAAGTTGATATTTTCTTTACTTTTTTCCATTCTAAGAC

Sequence 3925

AGGTACCACCACGCCCAGCTAATTTCTATACTTTTTGTGGAGATGGGAGTCTCTCCATGT
TGCCCAAGCTGGTCTCAAACCTCTGGGCTCCAGTGATCTGCCTGTCTTGGCCTCCCAAAG
TGCTGGGATTACAGGCGTGAACCACGTGCCCGTCCCCAAAAATGGTTTTAAATACATCCA
ACGTATCATCCTCCCTCTTTAACTGCACTCATTAATACCCTTTCTTCATTTCAAAAAA
GGGAATTCATNATTTCCCTTTTCTTCCACTTCCATGGCCCTA

Sequence 3926

CGCGGTGGCGGCCGAGGTACATTCATTTGCTTTGCTCTGTCAATATGCTTGAGTTGCAA
TGTAACATTTGAAATGATCTGAAATTCCCTCTGACAGAGAGGTGNTCCACCACTTGATAT
ACATTTCTCCT

Sequence 3927

AGGTACANGGTTATTATGAATAGGGAANGGAACACCTTGGGCCCAGGAGTGAGTGTTTCT
TCTTTTACAGGTGTAACATAAAAGCTAGTTGGTCTAACTTGTGTGTCTTTGTCCTATAAG
CCTCTGCAGGTGTGCGAGCAGGATTGCTTCTGCAACAATAGCCTCCACCCAGCCACATCT
TGGGAAAAGAATGGCCACTTCTTGGGGCACAGTCTTTTTTCATGCTGGTGGTATCCTGTGT
TTGCAGCGCTGTCTCCACAGGAACCAGCAGACTTGGTTTGAGGGTATCTTCCTGTCTTC
CATGTGCCCCATCAATGTCAGCGCCAGCACCTTGTATGGAATTATGTTTGATGCAGGGAG
CACTGGAACCTCGAATTCATGTTTACACCTTTGTGCANAAAATGC

Sequence 3928

TGGAGCTCCACCGCGGGGGCGGCCGAGGTNCTTTNACACGGATGCTAAAGTTATTGNGCT
GGCCGCGTTAAGGGTCAGGCATCAAAATGGCCGCTCAAGAGAATGAAGCTTTCTCTTTGT
GCAGATGCAACGGGTGGGATGGGGTGACAATTATCACAGTGCTGGTTGTAGGTGTTACC
TCGACATTCTGCCTTACAGCTGAGGGGGGATTTGTTTCGTCCCTGCCTAAATGAAAGGTG
TTAAAATAAAACTTGGATGCTGTTATTGGAA

Sequence 3929

GCCGAGGANCCCTTTTAAAGGGCANGGCTTTTGTTTTGNNGCCTATGGGTAAAGGTTTAA
CAAACCCCTGCCCTTAAGGCATGAGAATCTAACTTTAAGTTGAACTCTANCACTGTTCTC
CATGTTACCTGATAAACTGTCAGAGTGTCATCAATGTTTCTTAAGACAACCCGGCTTATN
GGTAAAAATNGANTCCCTGCCCTGGTCACTTCCATCTGGAACCTGAAGTATCCTATGNAG
CTANTTTNATGGGGAAAAT

Sequence 3930

CGAGGTACACAAAATCCATTTTCCACTTAAAGGCCTGAGCCAATGCCCCCAACCAGCCTA
TCTTACTTTTATTCTTTATGTTAAGCCCCATATCNCCNAGTNNGAACATGGTCCTCTGCT
TNNAANCGGAAATAATGAACTGTATAGTTTGGCTTGTCATNAGTTTTTGAAAGCAGTA
AANACAACCCAAAANACAT

Sequence 3931

AGGCCGAGGTACTTTTTTTTTTTTTTTTTNTTTTGGGGAGGAGAGGAGCACGTCAAACA
TCACGTAATATCATTACTNAGCCAGTCAACTGAANAAGCATGATAAAACCTGAAATNTCC
CAAGGCCANATCCAAACAAGCCACGGCATTTAAGATTAAGGCTACACNCANGGCACCGTG
CTATNTCACTACAGCATNGGGNGGAGCACAACNGTTCATNAGAGGNATTTGCNAGNAGGA
CTNNGGNTTCTGNAGGTCTTTAANATCAANCATNCTGTACAAGCCTNNGTCTGTANGCC
CCAGNANGAAAGNGTTAATACTAATTTATTTTGTGGCCNTTGGTTGGNGNTNGANCCACC
CCTGGCCCCCGNTGTTACACNTNTCTCCCGNGNGCCGGGCANCGNCCTCCTTANAAAACC
TTAGTTTGGGTAAATNCCCCCNCCGNGGGTCTTGNCATANAGGAAANTTTNCTNAATTTT
CCAAANGCCNTTTATTTCTGAATTNANCCCGNTCTGGACCCNTTTCTTAGGGGGGGGGGGG
GCCCCCAGGGTTNCCCCCAANCCTTTTTTTTTNGTTTTC

Sequence 3932

CCGGNCAGGTNCAAAGATCTGACATGTCACCCAGGGACCCATTTACCCCACTGCTCTGTT
TGGCCGCCAGTCTTTTGTCTCTCTCTTCAGCAATGGTGAGGCCGGATACCCTTTNCTCGG
GGAAGAGAAATCCATGGTTTGTGTCCTTGCCAATAACAAAAATGTTGGAAANNTCNGAG
TGGGCAATAGTCTGTTTGGCCTTGGCATCTTTCACNGTGGAACCACGTCAAAAAGNATCC
AGNNGGTGCCCTCTCTCTGNTTTGGGTGGATCCACACCCCAAATTTCTTTCCCTAANGGT

Table 1

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TAAGCCANCCNTCCCAGTTCNACCCCATANCAACCAAGGGTTTTANCCCAAAGTTGNT
TCCGGAAAACCTTNTGGAATCGGAANAAAATTCCNAGGTTATANTTCTTTTNGCCCCAAGN
TCCTTCTTTAAAAAATTCAAATTCTCTGGAAAATTGGGGNTATTCCAA

Sequence 3933

CTCGCCCTGTGCCTGGTCCCGCTTGTGAGGGAAGGACATTAGAAAATGAATTGATGTGTT
CCTTAAAGGATGGGCAGGAAAACAGATCCTGTTGTGGATATTTATTTGAACGGGATTACA
GATTTGAAATGAAAGTCACAAAGTGAGCATTACCAATGGAGAGGAAAACAGACCGAGAAA
AATCCTTGATGGCTTTCACCAAGGACANTGCCATACAAAACCAAAAATGGGAATACCTGTN
GATGGACCATAGAGGGCAGCCCAAGCCTGGGGGGAAGGGAGAATANACCCACCGGGGGCC
ANCAAGGGGGTTCAAGGGAATTTCTTGGGCCCCCTNGCTTCNCTTAAAAACTGGTTGNCGN
TTTCATTANNCCCAAATAATTCTATTTTNCATAANTTTCTTAAACCCCTTCNAAAAAC
AAAAAANCCTTGGTTNGNTTAATNATTCCTCGGANNCTTCTAACCGGGTTTCCCCTTTT
CTTGGGGGGCCCCAAACCAATTTCTTTCCATAAATAATTNCCAAGCCCCACAACCTTCAA
NTTTTTTTTTTA

Sequence 3934

GGGCNATTGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGACCCACACAGTTTAAGCAAA
CTAAAAGAACACTGACACTTTCTCAGAGAACAGGGATGGGAACCTTCTATCTGCCCATT
GTATCTACCCCAAGCTACGAAGACTTCCATTCTTATTAAGCATTACGCAACTACATT
TAGTGCCTACTATGCCAGTGATGCAAGAATGGATAAGACAGTCCCTACACTCAAGGATAA
CGCCTCTAGTAGGTGAGAGACAAACCGATTAATTCTGCATAAGGGATAAGTGCTGTATGT
GGGAAGCAATCCAATGAGGGCTCTGAGGATGGCAAAGGAAGGGTTCCTGGAGGATTTACA
TTTAACTGGTGCCTTGAAAGGTGTGTANAAAGTTGGCAAGATCAAAGGGAGTAGAGTCC
AAGGTGGGANAAGAGAAAAGGAGCAGGGGCCAGGCTT

Sequence 3935

CCGGGCAGGTACCAAGTGAAAGGGCTGCAGGTCTNTCATCAGACTTTTCACATTANNTGT
AGCCTGATNNATGCAAATAGAGACCCCTCCCCACTTGAAGCTCCCTCCTCATCACTTCCN
AAAGCTAAAAAATTATTTGATAATCTNATCATTGTGCCTTCTTGGACATCGTAATTTAGC
ACTGAC

Sequence 3936

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACAGGCACACACCA
CCATGCCCAGCTAATTTTTTTTGTATTACGTAGACACGGGGTTTTGCCATGTTGGCTAGG
CTGGTCTCAAGCTCCTGACCTCAGGTGATCCATCGCACCCAGCCTCCTTTTTTTATGTTGT
TTTTTGAGACAGGGTCTTGCTGTCACCCAGGCTATAGCCGCAAGTGGTGCATTCATAGCT
CACTGCAACCTCGAACTCCTGGGCTTAAAGCACTCCTCCTGCCTTANGCCTCCCCAAGTA
AGTTTAGGGACTACAGGGTGCACAACCCACCCACCAACCCTGGGCTTAANCCTNTTCGAG
GCCTCCAAGGTNGAGCCTTTTTNACCCCTCAAGCCTTATTGGANGTGGNTTNGGGGAACC
AACNAANGTNGCCAAAGGCTTACCCGNTGGCCNAGGGGCCTTTTTTTTTTTTTTTTTTTTT
TTGNANGGGGGGGGGGAAGAAANAAANANGGGAATTTNTNCCAACNTTCTGGGACCC
CTTTAANNCNAAATTNTTTTNCCCCNACCCNTNAGAGCCNTCTCCNANANNNGGGGGG
GGGGGG

Sequence 3937

CTACTATAGGNTTAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGCAAAGCAGTGGA
ATGTTTTCTNNTAGCTGATGTTTTTTTAAAACTTAAGTTCCTTGCTTTTCTTTTCTCTT
AATCAGGATTCGGAGTTTGAATCCACCTTTGACAATTGTCCNAAAGACGTTTGAATCAA
CAGAAAACCCAGATGACTTCTTGCCCTCTGTAATGACTTGTGTGAATATCTTAAGTTGC
CGGACTATTCAAGCATTGAGATAATGCGTGAAAACTGTTGATAGCAGCAAGAGAAGGGC
AGCAAGTCGTTCCATCTTTCCTGATTATAGCAAGAAATGCAGTNTCTGCCTGTTACAGCA
AAAGAAACAAATCATGATTTCTTTTCTAATG

Sequence 3938

CCGCGGTGGCGGCCGAGGTACGCGGGTGCTGGAATTACGGTGTGAGCCACTGCGCCCGGC
CCTTAGTAGCATCTTTTAATGGAGGTAGAGTTGAGATTTTANTGACTAACAATAAGGT
ATNAAAGGNAGGGGTTTATATGATACATNTGCATTTTANAAAAGTATNTAAGCTTNAAT
GTGAAGAACAGATTGAAATGGAANGGNGAGAACTANAAGCAGAAACATTACTCATTTA
AGTAA

Sequence 3939

CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCACGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTGGGAGAAGGGGTCAGGGAGCACCTTACCTCTAGTGGACAAGGGCC

Table 1

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CTGAGCTTTACACAGCCCTCCGTATTTATTAGGCAAAANANATAGGAGGGTGGGGGGG

Sequence 3940

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAATGCTGATTTGNCATCTCTCTAGAT
TTTACTTTTTTCATATTGAAATTCTTTTTTTAGTCTATTCTCTTGTAGCTTTTGTACATC
CAATGATCATTTGCCTCTCTCCAGGCACTACCAAATCATTACTGTGGATAGTTTCTGCC
TTTACAGGCTTAGAATTGACAAATTGAGAGACACATTTTTTTCAATTCTCAAAACAATA
GACTCTTTCCAGCAGATTTGCTAANGCACACTACTAAGAAATGTANAAATCTCACATTCT
TGTTCTAGTTAATACATGGGAGAATATTACTAATACATACATTNGTTTCTACATTTGTG
GTTGCCTTATACATTNTTCTTTTACGTTTTAA

Sequence 3941

AGGGCGAATTGGACTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATAACTGACA
GTCCTTCGATAATATGAAACATTAATTTACAAGGACCCGTTAGGGCTTCAATGATGCTGA
GTCTTGAAAAGGGGGGAGACCCTTGGGAGGACTCCAGGCAGCTGTGCTCCCAGGGCTC
ATGTTCTCTAACTGGATTAGGGATATGTCACCTNTGAAAATCTCCACCCTTGATGATTTG
GAAATGAAAACCGGAGTGGAACATTGAGCCCCAGCTTGAGAAGAAGGAAGCAAGGAAATT
GTTGTGNAAAAAACAGGCTTGCTTCTCCCTTTTGGTTCCCAAGNCTTTTGGTTGAATT
TGGAAG

Sequence 3942

TTAGGCGNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTANGGAGGCTGAGGTGGG
AAGGATCCCTGGAGCACAGGAGGTCAAAGCCGTAGTGAGCCATGATCACAACCACTGCAC
TCCAGCTTGAGTGACAGAGAGAGAACCTGTCTCAAAAAAAAAAACTAAGTCTAACTT
GTAGATCATCTCATGATAGATTATAGGGAAATGATACAGTTGACCATTGTTCTGGCAGG
TTCCATGTGCTGAGTCCTCGGGTATATATCTCACAGGAAGTGATTCTAGCTTG

Sequence 3943

AGGTACTTTTTTTTTGTGTTTTTACTACGAGACGGGGTTTCACTTGTGTTGGCCAGGATA
AGTCTNGATCTCCTGACCTTNTGATTCTTGCCCGNCTTGNGNCTTCGNCAACTCTTTTTT
GACCCCTTCANGGGAACNGGCTNAACTTGAAATTTTTGTTCCNTTGCGGANGCCCCANTG
CTTTCTTGATGGNCATGGNCCTTANGNGGGANGCCNTGTGAAGANGCAATACCAGGGNN
GTGANTCNAAGCTCNTTTTTCCNGCCTGGNATCCCCTCATTGNNCCCCCTGTCTTGACAA
CCCCTTGGTGAGGGGGCTTGNGAAACCANAGGCCTT

Sequence 3944

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTGATGTTTGCCCCACAA
CAGGGGTCAATTTGGCAATGTCTGGAGACATTTTATTGTTATAGCTGAACAGGAAAGTGC
TACTGGCATCTGGGAGGAGGCTGCTAAACATCTCACAATGTGTTACCCGTCCCAAATGTC
AGTCGTGTTGAGGCTGAGAAACATGGTTTAAATGAGTCAGAGGCTGGCCACAGTGGCACG
TGCTGTAGTCCCAGCTACTCAGGAGGCTGCGGTGGGAGGATTGCCTTAACCCAGGAGTT
CAAGACTAGACTGGGTGATATAGCAAGACCTCTGTCTCAAATAAAAGAAGCAAAAAATAA
ATGAATCAGAGACTAGTAAATCTACCTCCTCTCANATTTAAAGTCTCAAGCCTTAGAGCT
GANAAGAAGAAAGAAATAG

Sequence 3945

TCCCCGCGGTGGCGGCCGCGGCCGAGGTACCTGGTTTTTAACATTATACCAAGGAAGGAN
GCACTGAAGAGGGTANGAAAGACNGTCTTGAATGGCTGATGCCACCCCTCCCCTATGGAG
GANTGTGGTGCTGAGAGAGAATCTGTGCTTGGGAGAGGGAGAGCACA

Sequence 3946

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAGGGTCTGGTGGC
TTCTCTTCTCTACCCTTTTCTTAAGAGTCACTGGTGTCTATAAAGCCCCAGAGGATCAACT
CTGTATATCAGCCTCATGAGAACTGACCTTCTCCTGACCTCATTAAATGCTCTTATTTAA
AGTTCTCTAATTAAGCTTTGTATTTTGATATAATTAGAGACTCACCTGCCTGTGTCTTAA
AAATAACTCTCCCAGCTACTATCTCACATGATCTGTGGGCCCATCTTGTGAAGCCTAGTA
TTAAAAAATATTTTTGTTTTTTCAGTGGCGTGCATTTTAATTCTCAGGCCATAGCTCCTAC
CATTGAACAGATTGACCAGTCTTTTGGCGCAACCCATCCTGGNAGGTAAGCCAAGTCCAT
CTGATTCCTCTGGTCATCAGTGGCAGTTCATAGCAATAAACCTG

Sequence 3947

CCGCGGTGGCGGCCGCGGCCGAGGTACCTGGTTTTTAACATTATACCAAGGAAGGAGGCA
CTGAAGAGGGTAGGAAAGACAGTCTTGAATGGCTGATGCCACCCCTCCCCTATGGAGGAG
TGTGGTGCTGAGAGAGAATCTGTGCTTGGGAGAGGGAGAGCACAGTACTATGGCACTTT
GTATTGGAATCAGTGTTTGGTGTGTCTGTCTGCGAATGGAAAGCAATGCAGGGCACAA

Table 1

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TTTCGCTGGTGCCACAGAGGCTGCATTTANAACAAGCCCTAGCCAGAGAAGAATCTTCC
ATCCTAGCAATTGGAACCTGGGTTCAGCTAGCCCACCCGCTGTGGGCTAAAGTNATNTA
AGCTCCTAAATAAAATT

Sequence 3948

GGCGAATTGGAGCTCCCCGCGGTGGCTGGGCCGCGGTACTCCCTTNCCCTGACTCAGCCT
TTTATTGATGAAGGCATGGGATGGGATGGGGAGAGCNCACCTGGCAAAGACTNCACACAG
GTGTGCAGCACACCCTGATGGGGCCNGAAAATGTNACTGTNAGCCCTANGGGTGA

Sequence 3949

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATCATGAGGAG
CAGAACCACTAAGATAAAGATTATGTATATATGTATTTTAAGGGATTTATTATAGGGATC
TGACCGCATGCCATTGTGGGAGCTGGTTAAACAGNCTCTGTAAGGCTGNNGNNNTGCAT
CTAATG

Sequence 3950

CTNCTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGANGTGCCTGNNGCTNNNTNT
TACTTAGACATATTNTANAAATTATTA AAAAGATTTTCATGTTTGAAAACCTGGGGAAAA
AAGAT

Sequence 3951

GAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCNGGTACTANC GGAATTAAGAAAGAA
ACTTGTGTGTTGTCTGGTTTTTAAACTGTTTTTTAAGGCATGTAATGTTGCTTATTTTAC
CTTTTTAATTCTNCCTGNATAACATTTTCTTTCTTCCACTCAGTGAACATCCCAAATAG
AATTTTACTTGAAAACTTTACATCAGCCNAAGATGTTTTGNTTGCCATAAAGGAAGTAG
GTNTCAGAGGGGGTAATTCCAATACAGGTAAGNAGACTTTGATACCTGGGATGTAAACATA
GGAGAGGGTTATCAGTGATCAGACATGTAAACAGTANTATGCTATTTTA

Sequence 3952

GCGGCGGCCGCCAGGCACNATC NNNANGTTACATGTATACCAGAGGGGGTGAGGCACTG
CTANGGTNAGGAAAGACAGTCTTGAATGGCTGATGCCACCCCTCCCTATGGAGGATGTG
TGGTGCTNAGAGAGAATCTGTGCTTGGGAGAGGGAGAGCACAGTGACTATGGCACTTTGT
ATTGNAACTNANNGNTTGTGTTGCTGTCTGTGCGGAATGAAAGCAATGCANGGCACAATT
TCNCTGGTGCCACAGAGGCTGCATTTANAACAGCCCTAGCCAGAGAAGAATCTTCCATC
CTAGCAAATTGGAACCTGAGTTCCANCTNGCCACCCGCTGTGGGCTAAAGTTGATNTNAG
CTCCTAAAATA

Sequence 3953

TAAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TTTTCTTTAGGGGCACAGAGCTAGCAAAGAGCCAGGAATCAACCCTTATTTTGTCTTAT
TCCAAATGATATAGTGTGTTGATTCTACCAAGTCANATAAGTAGGTGGAGAAAAGACAAA
GTGACAAAACACAGGAGGGACAAAGAGATTATGCCTTCATGCTTCCCCGCTCCTTGAAAA
TGTAGTATATGCCAAGTTTTTCATTGATTCAGTGGGTAAGGCAAGGGACACTGGCCTGGTG
CCAGTTCAACCACTCTTTCAGTCTNTTTGTTTATTCAACAAGCTGTTCCTACTGGGTCCTG
GGGGAANAGGGAANTATTTTG

Sequence 3954

AGGTACTCANCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGG
TGTATCTCTTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGAC
TGTCAGGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGNTGAAAATCCNTGTGTTNTC
TGCCCTCTGCTCCTCCATCTTAACCTCTGGAGGAGTTAAGGCAC

Sequence 3955

CCGCGGTGGCGGCCGAGGTACTGTGGCATGGCGCAGTGGGTGACATGATGGCCACATAGC
GGTCAAAGCCATGGCCAGCAGCACTGTGGATTCCATGCCAGATAAGGAGTGGATGGCAA
ACATCTGTAGCAGACAAGCATCAAACCTGGATGGTAGTGAATTTGAACCAGAAGATGGCCA
GCATTTTGGGCATGGATGAGGTGGAGATGAGGGATGTCAATGCCTGAAAGCATGCAAAGA
AATATATACATGGGCTCATGCAGGCTGTGCTCANTCCGCACAATGTAGATGATTGTCAAG
TTACCTAGCA

Sequence 3956

ATTGAGCTCCCCGCGGTGGCGGANATGTCNGATTTTTTTTTTAATTTAATGAAATTGTAA
TGAGGAAAAATTTTTAATATAGTCTTGTCTACCACACATCCCATAGATTTAAGGATTTT
AATAGAAAGTCATGATGTATGTATTTAAGCCACGTTAAAGAAAAAATACTATGGAC
CGGTATTCAGTGATACAGNTTCATGGTTTTNAATCTTTCAAAGCACATTAAAAATGNN
GTGCTGATAAACCCCAAGTAAATTAACCCTTTTTCCGTATAAATCC

Table 1

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Sequence 3957

TAGGGCGAATTGGGTCCANCCCNCCGCGGTGGCGGCCGCCCGGGCTGGTACCAACGCCTC
CCAGGCANAGCCCCCAACTCTTGATTTTTGATGTACTAANC GGCCCTCAGGGGTCCCT
GATCGCT

Sequence 3958

TNGGAGCTCCCCGCGGTGGCGGCCGNGGTACATCACCTGCTGAGGGACATCCAGGACAA
GGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCAC
CGACTTGACGATGGACTCCGTGTTGGCCACTGTCAAGGCATTGNTCTCCTCCAATTTGGA
CCCCAGCCTGGTGGANCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCT
GGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAATAAATGGGAGTTCTTCAGTTTT
ATCAACCAACAANCNAGCTTTTCANGCNCCCAAGCCTCTTTNTACCNNAATTTTNAANCA
ATNACCCAAAACCTNACCATNTTTTNCCCAAGGNANAAAAANCCCAAATCCAGGGCNCNC
ACNCCAATTTNCCCC

Sequence 3959

GGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTGA
CGGAGTTTGGCTCTGTCACTCCAGCTGGAGTGCAGTGGCGTGATCTTGGCTCACTACAAG
TTCCGACTGCCTGGTTNAAGCGATTATCCTGCCTNANCTCCCAAGTAGCTGGAACCTACA
GGCAGCACCACCACGCCAGCTAATTTTTTGTATTTTTAGTANAGACGAGGTTTCACCAT
GTTGGCCAGGATGGTCTCCATATCCTGACCTAATGATCCACCCTTCTGGGCCTCCCAAAA
TGTTGGGATTACAGGGTGTGAGCCACTGCCCTGGCCCCATGTCTCTTCTTATAAGGGCCT
TAATCCCATTTNNGAGGGGCTTTTGCCCTCAANACCCAAANTAACCTTCCAAAAGGTCCCA
ATTCCAAGAACCATTACATTCANGGTTTAAAGCTTCAACATATGAATTTGGG

Sequence 3960

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGATGCTACACCGGAGAAAGGGGGATCT
GGTGATCCTAATTTTGTCAACAGCTTTGAAATCTTTAGCTAGGCATTTAGCCCTATAAA
AATCCATTTTCTCACTTGTAAGAAAGAGTTGAAGTTATGTTTTTCCAGGGCTTTTTTC
TCTGACAAACCGAATTGCAGAACAATTTTATGACTCAACCAACGTAGCANAGTCCAGAGA
GAGTTTGAAAAAACACCTTACAAAACCTTATAACTGGAAGTTCTCCCTCCAAGGGCACTT
AATTTTTTCAAGTGAAAGCATGCATGCNAGATTCATCCANCTGTTACC

Sequence 3961

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTTTCAGCCCTTCTCG
ACTGGAGGCGGTTCTGCCTATTCCGCTCCCCACCTGGACACTTAGCAATGCCTGGAGACA
TTTTTGATTGTTGTAAATGGCATCTAGCAAGGATGCTGCTAAATATCCTATAATGCACAG
GACAGCTGGGACCCTCCCCCGCCAACAAGGAATAATCCACCCAAGGTCTCCATAGCACT
GAGGCGCCGACAGCTTGCAGTGGCTCACGCAGGAGGAAGGAGCCTGGCGCTTCTAGACG
CCTCCTCTGAGAATATTACCGAATGCACTACATGCTAGGCAGAAAGGATTGNGCAAGATC
ATTATGCTAATCCGTTGTAACCCCTGTGCACTGTNAAGATCCTTGGAATATGGAATATTN
CCAAGTAAAAAATTTNCNCCCACCTGGT

Sequence 3962

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGCATTTCC
GGGAAGATGGCGGCGCACAAAGTCAGGTCCGGCACATGTTTCCGCGGAGCGGACCCAGCAA
TGACGGATGATATCACCTCTTCTTCTTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTC
ACCATGAATGCCACCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTG
CTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCGCTCTAGAACTAG

Sequence 3963

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGNGCCGGGGCCTTTCTCAT
TGACTATGCTGCTGGTGGGGAAAACCTGCTTGTCTNATGANAGGGAAGGGNTAGATNTCAT
AGAGA

Sequence 3964

CCGCGGTGGCGGCCGCCCGGGCAGGTACACCCTAGCTTCTTCAGAGGAAATGGAAATATC
TTGAACTAAGCAGCATTCAGGGAATCCCCTAGCAAAAATACATAAATAATCCTGGGCT
GGGCAGTTGCTCATGCCTGTAATCCCTTGGGAGGCTGAGGCAGGCAGATTGTTTGAGCCC
AGGAGTTAAAGACCAGCCTGGGCAACACGGTAAAACCCCATCTCTACAACAAATACAAAA
TTAGGCTGCACGCCTATAATCCCAGCACTTTGGGAGGCCGAAGCAGATGGATCACCTAAG
GTCAGGGAGTTTCAAGACCAGCCTGACTAACATGGGTGAAATCCCTACTAAATACAAAAA

A

Sequence 3965

Table 1

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TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATANGCAAAAATCAA
AGAGCACAGACTGTATTTTCAAGAACAGAAAAATCTCTAATGCTGAAAGATATAGTAGAA
AGCAGATTTCTTTGGGGACATTAATCAATTAGTTTATAATTCATTATGAAGATTTCTCTT
TTTTATTCCGGGGAGAGTCTGCTACATTTGAAGTTAATGTTCCATTACACCATTTTCTG
CAAAAAGAAAAGAATCCATGTTACTCTCTTTTATAAATAAATGCCAAGTTATAATCTTTA
TATGTAAAGATACTTTCAGAAAAGAAAAATGTAAAATCCAATTCCTCAGGGGGAAATTT
ACTTACCAGTATTTAACCAATCACAAAACCTGGTAACATTTTAAACACAATGAACTGGGA
AAGTAGGCAAATTAAGAAAACCTTCTATTAAAGCAGAAAAAAGTGGCCAGCCAGAAAA
CT

Sequence 3966

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACAGAAGAACTGTATGGGTA
TCTGAAGAAGTATCACATAGACCTAGATCCACACTTCAACGATATCCTGGGACAACATTC
ACGGAAACGCTGGGAAAACCTTTATCCATAGTGAGAACAGACACCTTGTCAGCCCTGAGGC
CCTAGATCTTCTGGACAACTTCTGCGATACGACCATCAACAGAGACTGACTGCCAAAGA
GGCCATGGAGCACCCATACTTCTACCCTGTGGTGAAGGAGCAGTCCCGGCCTTGTGCAGA
CAATGCTGTGCTTTCCAGTGGTCTCACGGCAGCACGATGAAGACTGGAAAGCGACGGGTA
ATGCGGCATTGATGCTTGCCAATAAAACCAACCAACCAACACAAACCTTGAAGGAAAGC
TACAGTGTGATAAAAAGAAATTTCTTATCATTCTTNTNAATGCACAGAAGAGTNAAAGAC
CTAAAAGTCTGTCAAAAAGCAAGAAAGAACTCCCCAGTGCTAGTCTCCAGGGAGCTGTC
ACTGTGGCAGCATGGGGATGCACCTAGTTCANGATCTGAAGGAGCTCTGCCTTTGGAATG
CATGGGAGATAGAACTCGGAGTTGTTGTACCT

Sequence 3967

AGGTACAGGTTTGGGGGCTCTTTCCAGCCTCTACTATGTTGCCCCCTTCCCCAAAGCCCT
TACAGGGGCAGAAGCACATTCCCCGTGACCCTGAGTCTGGCCTCATTGGAAGTCTTCT
GTGGTGTATGGATGCCTGTGTGTGTGAGTGAGATGGTGGGGGGCCACGGCTATCTGGCTC
TAGCACACTCATGGGAGACCAGCTCTGGGAACAACAGGATGGGGTGCTGGGATGGGGGT
TAAGAGGTCTCTGCTAGATATTTCTGAACTGACCTCCCCAGGTGCCCAACCTGGCCTTGG
GAAGAGAGTGCCTAGGGCAGCGGGGATGGAAACCCTTGCTGCAGCATAGGTCAGGCCTN
ATGGCCTACACCTTGACCTCTTGACTTTGTTGCCCTGGCCTTAANTACCTGCCNNGGCCG
GCCNNTNTAANAACCTAGNGGATCCCCCGGGCTTGCAGGAATTCNATATCAA

Sequence 3968

CCGCGGTGGCGGCCGGGCATTTCTCCCAGGGATCTCTGTGCTTCCTTTTGTGCTTCCTGT
GTGTGTGGATATTTAAAGGGGCTGGAAATGTGCAAAAACATGTCACTACTTAGACATTAT
ATTGTCATCTTGCTGTTTCTAGTGATGTTAATTATCTCCATTTACAGATGTGTGGCCTC
AGATGGTAAAGTCAGCAGCCTTTCTTATTTCTCACCTGGAAATACATACGACCATTGAGG
AGACAAATGGCAAGGTGTCAGCATAACCCTGAACCTTGAGTTGAGAGCTACACACAATATTA
TTGGTTTCCGAGCATCACAAACACCCTCTCTGTTTCTTCACTGGGCACAGAATTTTAATG
CTTATTTCACTGGGCTGTTGGCAGGAACAAATGAAGCAATCTACATAAAGTCACTAGTGC
AGTGCCTGACACACACCATTTCTNTTTGAGGTCCCCTNTAGAGATCCCACANGGTCATATG
ACTTCTTGGGGAAGCAAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCA
NGTGGGTCACCTGAGGTGAGGAGTTCAAAGACCAGCCTGGCCAATATGGTGAAACCCCAT
CTCTACTAAAAATACAAAA

Sequence 3969

AGGAGGATGGTGCCAGATTTGTATCAGGCACTGGAGAACCTCCCACCTGGTCCATGCCC
GGCTCCCGGTGAGCACCGAGACCCAACCTTGTGCACAGCCAGTCTTGTCATCAACAAACA
GGGTAGTAAATTATAAAAAATAAAATAAAGGAATGTAGCTGGGCGTGGTGGCATGCGCCT
GTAATCCCAGCTACTCCGGAGGCTGATGCAGGAGAATCGCTTGAACCCAGGAGGTGAAGG
TTGCAGTGAGGCGAGATCGCGCCACTGCGCTCCAGCGTGGATGGCAAGAGCGAAACTCCT
TCTCGAAATAATAAATAAAATAAAGGAAATAGGGCCCGGGCATGGTGGCTCACGCCTGTA
ATTCCAGCACTTTTGGTGGCCGAGGCGGGCAGATCACTTTGAGGTCAAANGGTTCGAGAC
CAGTCTTGGCCAACATGGTGAAACCCCTTCTNTTGCTGAGAATAAACAATTAGCCAGGC
ATGGTGGCGGGAGCCTGTAATCCCAGCTATTTGTGGGGCGGAGACACAAAGAATCGCT

Sequence 3970

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAACCTTTATCTTTTT
TTCATTCAGCAAACAAAAAATGTCAAATGACATGAAAAGTGGCAAGTCTTCCGACAATA
AATAATAAATTACTTTATAATTTTGTCAATGCAAGAGCAAACAAAAAAGTTTCCTTTTT
TTTCTTTTTTATTTCCATAGAGAGAGAAAAACAGTCATTTTAAACCAATAACTATACATC

Table 1

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TTTGGGGGAAAAGTTCTTGGACAGACACAAGTCAAACACAATCCCGAGACGCTTGTGGCA
AAATAGAGGTAACCTTGTTGCAATGCTTTATAAGTTGGTTTTTAAATCTGAATTCAAAA
CCTTTAAAGTCGCTTCAGACTTCTTGATAAAGGATGGATCTCAAAAAAAGTGGGGAGGGG
GCAAAGTAAAAAATAAACAGCTCAGGACAGGCCAAGAGACCCAGGATTTCAATTAACCC
CTTGGTAAAGTCAACTTTAAACATATCAAACCAATGCAGCTCCACCTTCCTGAAANGGAC
TCTTTCAGCCCAAGGANGCCAGTCTCTNTTCCCTGCGCTTTTGCTGGAGCTNCTGTTTGGC
AAGGCAATGACCAATNTAGAAACNGCCCCATTCAGATANGATGGACTAGAAAAATTTCTA
TTTTGGTTTTTCTCTAAAGGTGCCNGAAATGGAAATGCTTCTTTGAGATCCTTGAATATA
ATCCTTCCTTTTAAAAACGTTTTTTTTTANTCCTTGGGCGGTTTAAACTAGTGGATCCCC
CGGCTGCAGAATTCNTTTTAAGCTTNTNATCCCGNNACCTNNNGGGGGGCCCGTC

Sequence 3971

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTATCATCTCTG
TATTGTTTAAACAAAATATTTCCACATTTGACAATAAAGTCAGTATTTGAAAGGAGAAAA
AA
AAAAAA

Sequence 3972

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTATTAAAAAACAGTTT
ATGTGCAAGGTGTATAAGAAAAGTAAACATACCTTTGGTAAAAAGATTATAAAGGGGCA
TAAGAATGTGGATTTTTACCTACATTAAAAGGTTAAAAACAATTATTGTTTTAAAGTTT
AAGCAAGTTTTTAAACGTTAATTATAAAGAAAATTCTGCGTGTAACATATTAGCTAAAG
TTAAAAAGGTATCATCCAGTTTTTCTGTGAAGTGGACATTAAAGTAAAAATGCCACAGG
TTTTTCTTAAAGCATCAACCTGCTCTTTAACAAAAATTATAAAGGTTAAAAAGAGTCTA
TAAATCTTACCTTATGGTCAAACATGAAAAATTGGATAAATATGTCTACAAGTTTTAT
TAAATTCAGTTTAAATTAATAACACACTAATATAAAGGTAAATTTAGCTTATCTGGT
ATAAAAATCATACAAAGAAACATTATTAAATATAAATGGGTGTTTAAGCTTTCTTTGGT
CTTAAAACTAATAAAAAATTGGTGCTAAAGGAAACCATT

Sequence 3973

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTGCTCACACCTGTAA
TCCCAGCACTTTTGGAAAGGCCGAGGTGGGCGGATCACAAGGTCAGGAGTTCGAGACCAAC
CTGACCAACATGGTGAAACCCTGTCTCTACTAAAAATACACAAAAAAATTGGCCGGGCAT
GGTGGCACGCGCCTGTAATCCCAGCTCTCAGAAGGCTGAGGCAGGAGAATCACTTGAACC
CGGGAGGCAGAGGTTGCAGTGAGCTGAGATCATGCCGCTGCACTTCAGCCTGGGGGACAG
AGAGAGACTCTGTCTCAAAAAAAGAAAAAAGATGAGGAAATAATCAATCTTCTTCTGA
TCAATTTGTCCATAGTTCTGGAAAAGCTACTGCACAGAGCAGGAGAGGAAACTATTTGCT
CTCTGTAATACTGAAAAACTGAGAGTGCTATTTTAACTTGTCATAACTAAAAGGTACCT

Sequence 3974

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAAGGGAGA
GAGCTGTGCGAGCGTGGGGGAGAGTTTTTCGTTGGAATATACGTTGCACATTTATGGCGA
TTCTGAGTGTGAGGGCAGACTTCTGCCAGGCTCAGCACAGCATTTCGCTGACAAGTGAG
CTTGGAGGTTCTATGTGCCATAATTAACATTGCCTTGAAGACTCCTGGGCACCGAGACTG
CCTCAGAAATAGTTGGCTTTTTTTTTTTAATTGCAAGCATATTTCTTTTAATGACTCCAG
TAAATTAAGCATCAAGTAAACAAGTGGAAGTGACCTACACTTTTTTAACTTGTCTCACT
AGTGCCTAAATGTAGTAAAGGCTGCTTAAGTTTTGTATGTAGTTTGGATTTTTTGGAGT
CCCGAAGGTATCCATCTTGCAGAAATTGAGGCCCAAATTGAATTTGGGATTCAAGGTGGG
ATTCTAAATACTTTGCTTATCTTGAAAAGAGAAGCTTCATAANGAATAAAACAAGGTGA
ATAGAAAAAACTGATTGGATAATANGCATTNTANTGGGCTTTTAAATGTTTTCTGCT
NGGAAACAATTTCAAGAATTTATTGGATTTTTTTTT

Sequence 3975

CGCGGTGGCGGCCGTGCGTAGACTAGTCAAGCTTCTGGTGTGTGACTAGAGCTGGGCTTG
TCGTCCCCCTCCAGCTTCAGCTGTGCATAGACTGGTCAGCCTCCAGAGTGACCAGAGCAGG
GCTGTCGTCCCTCAGCAGCAGCTTGGTCTCATCTCAGGATCGGCTGAGTTGGATGATCTGG
GTCTTGCTGGCTGTTCCACTTGTCCTGAACTGCTGGTTTCAGCTGACTGTGGTGGACCTA
TGGCATGATTCCCTGCAAATTTAACAGCAAGTGGGAGTGGACAAGATTACAGTACCT

Sequence 3976

CCGGGCAGGTACGTGAGGAAGAAACCCGGAAGGGGAAGAGGAAAGCAAAGGCGTCAGGAA
TGGTTCTTCCTCAGGGTCTATTGACATTCAGGGACGTGGCCATAGAATTCTCTCAGGAGG
AGTGGAATGCCTGGACCCTGCTCAGAGGACTCTATACAGGGACGTGATGCTGGAGAATT

Sequence 3983
 NCGCCCGGGCAGGTACAGGTAAGGCAGAAGGAAGGGCAAAGAAACAATTCCAGGGC
 CCTGGTTTCTGGGATGACAGGCTTCCCAACACTCATGCCAGGACTATTTTCCACCTCGGT

Table 1

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TCACTATGGGTTTTTTTTCTTTTTTTTTTAATATAATGAATTTTAAAATGTGCGTTTG
 TTGCCCAGATTATTCCAGAAAGAGTTGAAGGGAGGAAAGGTGTGCTTGGTGTGCTGGTGA
 TTCTAGCACTCTCTCCAGCCTGATTTCTAGTTTGTGTGGTGCATCCAGACAGCTCACCCA
 GGTGCCCCGGGCTCTTTCTGGTATCCAGAGCCAACCCATCCAGGGCAGGAGGGTGAAGATT
 AGGAGGGGCAAAGGTTAGCCTGGAGGTTGCAATTAACAAGAATCAAAATGGGTTTCAGGA
 TTCTCACACCCAGTTGCTAATTTACAGCTGGTCTGTAGAGGTGACACGTAATAGGACAAC
 ATGGTTTTGGGGGCAATGCTGGGGTGTGCTGCTCTGCTTTTCTAGGGGTAGAAAGGAATC
 ATCATTTGGAAAATTCTTAAATCGATGGAAATGAATTTTATGTTCCCTNATGCTTCCATC
 TNTTTCTGGGNTTGNCNTGCTNTTCC TGCCANCCCCCTTACTTGTGGANAGGTNACCCACT
 TNCTTAAACTTNTGTNTTTNGGCATTTTCCCANGAAAGGAAAANTTGAAAAGGAAAGGAN
 AAAAAAACCTTATNTTTGGTGCCCCAAAATTNNNCAAAAAAAAAAAAAA

Sequence 3984

GGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCGGGCAGGTACATTTTACTCCTGCTCTA
 AAACCTTGCTCAGTCTCTCACTGTGCCTTATGCCCTCAGCTGAATTCTTTCTTCTGAGC
 AGGCAGGAATTGAGGTTGCTGCAGACGTGTATGCATTTGCCACCAGTAACATCTTTTGGT
 GCCACATGACTAGGATATGTTCTCTAGTGCTAACATGTTTCGTTTACAGTTCTTAGGACTC
 CCTGATAGAAAAAACACANAAAAACACAAAAAACCCACCAACCAAAACAAACAAAAAA
 ACACAGGAGTTTCTCCCAAAAAGAAGTCTGCAGTGTCTTTTCTGTTTTCTCTGAAGGTAT
 CCCAGGGTGTAGATTTCTGGTGGTTTTCCCTTATGTGGCACCAGAAAGTTGGCAAGAAGA
 AGGAAGTGCTTATATAAATAAATAGGGGAAATGAACAGAGAGAGTACCT

Sequence 3985

TTGGCGGCCGCCCGCGGTCCCCGGGGGGNTCGAGAGAGGGATCGTGACCGGGTTAGAGA
 ANGGNNCTCATATCGTANTANGGATCGCAGTCCATCAAGAAGAAAAANGCNNAGATCGTG
 AAAGGGAACGAGAGCGNGAAAGAGAGAGGGAAGAAGACCGAGNGCCNAGAACCTAGAAC
 GGGNAGCCCAAGAGAGAGAGNCNAGAGGGGACCNNGNANCCGAGAAAAGGAGAAAAAAG
 ACNAAAAAACCNNGGCCCGAGAAAGAAAGANCGAANAANATGCNTTCCGAACCNAAANA
 AAAACTTGGAAGAAAACCTTCCGAGAGGAAAAGAAAGCTGCTTATTCAAGGAAGCCGCC
 TTAAGAAATTGGNGAAATCAGAAGAACCAGAAAGAAAACCCGGGAATNTTGAAGANAGAA
 NCTTGANTGGANAAGAAGAAAGANAANAGAAATTGGCCAAAGAAGCTTAACCGACTAAA
 AGAATTCTTAGAAGACTNTTGATGATGATAGAGATTGCCCCAAATATTACAGAGGAAGTG
 CTCTTCAAAAAGGTTGCGTTGATAGAAAAAGGGAAATTGGAAGCANNATGAACGANATN
 TGGAAGAAGANGGGAAGGAGGAGCTTTGANGGAAATTAGGCAGCGCCTTNTTGGCCGAAN
 GGGCNTTCNNAATCCCGATTCCCGAGCTTCCCGANGGNTGGAACCAAGAAGCTTGANAGG
 CNCNNGCCTCCCCCAAATTAAAGCCNGGAGCCCGAATTCNNAAGANGGNGGAGAAAGAAA

Sequence 3986

CGAGGTACCATCCTGGGGTTTTTGTTCAAAAAGAAAAAGAAAAGAGGGTAAAACAGTTAT
 TATAAGAATTCTTAGAACAGAGCAAGTAATTGGCAATAATTTTTTTAGCTCTAAAAAGA
 AAAAAAAAAAAGGTGGTGTGTGAGCCGAAAGTTTACCGGGCCACCACAAATACTTTCAGT
 AGGAATTTAATAAAAATTTGGGTCCATTTTATGAACACAAACGGCGAGCCAGTTTCTTT
 CTTTTTTAAAAATCAACTTTCTGAAGCTCTTCTTAAGATTTTCTTCTAATGAACCAAAA
 GAACATCTGCAGCATGACACACTGGCTGATGAAGCATGACACTTTTAACATTATTTAAGT
 AAAATAAAGATTTAGGTAAATTAGAAAAAAATCAGAAGTTAGAAATAAAAGCCATGCCCT
 TTAAAAAGTGGAACCCCACTCCTGTAATTGAACTACAGTAAAAACAGANGCNACTTTT
 TTGGATGGTTGGTGTGCCCCCCCCCAAAAAAAAAAAAAANGAAAAAAAGTACCT

Sequence 3987

CGCGTAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCGGGCA
 GGTACTAGAAGCAAAATATTAATCTTTGTGATTATTACTTCTCCAAACTAGAGGAGAGAT
 ATCCAAAAACCATTTTCATGAAAATAACTAGTTGATTTCAGGGGTATGAAAATCAGTCAAAC
 TGGATATGGAATTATTATCTTTCGAAGGAACCAGAAAACCAATCAAATATCTTGCTTTCTA
 GATGACAGTGCCAAGATCATATTCAGTGAAGCAAGAAACAGGTAACAGTGACTAAGGGTTA
 CCAGGCTGGAGAAATAAATTTAGGGTAACAGAAATGNTGATTATTTTGTAGGGTGGGCT
 TAGATANGGCTGGAACCCAAAAAA

Sequence 3988

CCGCGGTGGCGGCCGCCGGGCGGCGAGGTACATGCAGATTAATGTTGTTTTTCATGCCTGCAA
 CACAACATCCAATCTGCAGCCCATGGATCAAGGAGTAATTTTGACTTTCAAGTCTTATCA
 AGAAACACATTTTCATAACACTATGTATGGCTGCCACAGATAATGACTCCTCTGATGAATC

Table 1

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TGGGCAAAGTAAACAAAAAGCCTTCTAAAAAGATTTCATCGGCCAGGTGTGGTGGCTTAC
ACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCACCTGAGGTCAGGAGTTT
GAGGCCAGCCTGGCCAACATGGTGAAATGCCATCTCTACTAAAAAATGCAAAAATCAGCT
GGGCATGGTGGCGCATACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGAATTGCTTA
TACCCAGGAGGTGGAGGTTCAGTGAGCCAAGATTGTGCCGCTGCACTCCAGCCTGGGTA
ACAGAGCAAGACCCTGTCTCCCCCTAAAAAAGATTTCATCATTCTACATGTCATTAAGAAC
ATTTTTGATTTCATGGGAGGAGGTCTTAAAGATATCAACATTAACAGAAGTTTG

Sequence 3989

CCGCGGTGGCGGCCCGCCCGGGCAGGACTCACCGTTTCTCTTAGGTAAAGAGCTAAGAGT
GGAATTCCTGGGTATGGGATAGATATATGTTTAACTTGGTAGGAAATTGCTAATTTTTTC
AAAGTGTATATCATTTTACACCTCCATTAGGAAAGTATGAGTGATCATTTCTCATCTC
ACCAACATTTGGTATTGTTCAGGTGGGTTTNTTTTTTTTTTCATTTAATTTTGGGGAATTCT
AATTN

Sequence 3990

TGGAGCTCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCGTAAAC
CGTAGTTCTTGTCCTGCTTTCCTGGCTTCCTCCAAGTGCCTNAGGGCCATTCGTAGCTCT
TGAGAGACAATTCTGGTGAGTCCCGCTCCTTCATGATCCAGTCCAGGGCCATGTGGCTG
CCCATCTTTTCATCTAGAGAATACTGAGAATAGTAGGAGATGACTTCCTGTCGGGAACAC
TTTGTTTTCACGAAGGGCTTTTAGGCTTCCATTCCAGTGCAATAGTTGGAAGATGGTCATC
AGCTCCTGAAACTCCAGCATAGTCTTCCCC

Sequence 3991

CCGCGGTGGCGGCCCGAGGTACTGAGTATAAAACAATATAAAACAATATGAGAAGGTCTC
TCTCTTCCCTCAAGAGTGTATGACTTTGCTGCCCAGGATGATCTTGAACCTCCTGGCCTCA
AGCTATTAATTTCTTCCCAACTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAACCAT
AGCGCCCAGCTTAACAGGATTTTTCAGAGAGAAAAAGTTTTTTAATTTTAATGAAATCCA
CCAATTTATCTATTTTTTCTTTTACGGCATGTGCTTTTGGTGTAATGTCTAAAACTATA
CCTACGCCCTAGGTTGTAAAGATAGTCTGTTTTTCAAGTTTATAGCTTTCCATTTTACATTT
AGATATATGATCCATTTTGAGTTAAGTTTGTATTACATGTAAGGTGGGGTTCCCTTNGTT
TTGGTCTTTGACAAATGGGAAGTCCACAACATTTATTGAAACTCTTCTTCCCTCCATTGGT
TNTAAAGANAAATCCGTTGGCCATACTTCTGAATGTCTATTTATGGATCCCTATCTTATT
TTATTGATGNGTATTTTTATCTCTCCTCCATGGGAT

Sequence 3992

CGAGGTACCATGACCCTAATGTTAATGGAGGAACAGAATTAGAACCTGTTGAAGGGAATC
CATATAGACGCATTTGGAAAATAAGTTGCTGGAGAATGGCAGAAGATGAGCTTTTAAATA
GATACGAGAGAGCAATTTATGCAGCTTTAAGTGGGAATCTTAAGCAGCTGCTTCCCTGTCT
GTGACACCTGGGAAGACACAGTTTGGGCCTACTTCCGGGTGATGGTGGACAGTCTGGTAN
AACAAGAGATCCAGACATCAGTAGCAACTCTGGATGAAACTGAAGAACTCCCTAGAGAAT
ATCTGGGAGCAAACCTGGACGTTAGAAAAGGTTTTTGAGGAACTTCAAGCTACTGACAAA
AGAGAGTTCTGGAAGAGAATCAAGAACATTATCATATAGTTCAAAAGTTTCTTATCCTGG
GAGACATTGATGGTTTGATGGATGAGTTTAGCAAATGGCTTTCCAAAAGCAGAAACAATC
TACCTGGACACCTGCTTCGCTTTATGACTCACCTTATTTTGTTTTTTCCGTACCCGCCN
GCN

Sequence 3993

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCNCGAGGTACCAGTTTTGTGCTGGTT
GGCCTCCTGCCAGGAGGTGACGCTTCAAGGGAGCAACAGCTGTGGTAGCATAGGAAGAA
TCANGTGGTGAGCAGGGCCCTANAACCTACAAGAGAATATGACCTTTGTCTTAGCTACCA
GGGTGGGTAGAGGAGGACCATCAGGTTGGGGCAGGGCTAGGTGCGTCTGAGTTCAGACTC
TCTATGGGCAGGTCTTGCTGTGGCTGCTGTAGGGGATGGGGGTGGGGTTCCAGGTCACT
AGAGTTGTGTGCCTAGGAAGATTATGGCTACCTCTGCTGAGTCACGCATGTTGTCAGGGA
AGTGGGGGAAAGCTGGCAGTCACAGGCCTCACCCANCTGCCATGCAAACTGAANGGCCAG
TCTTACTTCCACCATGGCCCCCAAACTGTTGTGCCCCGAGCGAAGTTAAAAAATGCCAC
ACTTTGAGATGAAATTAAGAGTCCTTTATTAGCCCGCGACCCGAAAAAATGGCTAACGCT
CAAAAATTCTCTCGGCCCCGAGGAAGGGGGCTTAACTTTTATATCTTGGTTTAAGAAGG

Sequence 3994

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCATGAAAT
ACATATATTTTATAAGGTTTCAAGTTACAAAATGGATTGTTTCAAATGGCAATTTCTTACAC
TAACCTGATTATGAAAAAAGAAGTCTGTATCATCTGCTTCCAAGTCTGTTATGTCCAAA

Table 1

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TATATTTTAATTATGCATTTATTTTGCTACTTTTATAAATATTAGAGATTTTACCTTAAA
TTATTTTTGTAACTAGTTCTAGAACATGTTTTCCAATTATTTTCTAATGGAGACGT
ATAATTGACCTATGTTTATGCATATATGTTCTCTACACAGTGAACTTTTTTTAAAAGA
ATAGTAAAGAAAATGCGGAAGCTCTGGCTCTCCAAGGCAAAGTCAAAAAAAAAAGCGGGG
GGGATGCGAGGAACATTTTATTACACCTCCTGATTTTCACTCCTTGAGTTTATTTTCT
CCCCTTGTTTATTTGTTAATGCTAGAACTGTATTCCTAAGAGAGCATACCTCTTTCAG
GTGAGCATGATAATTGGAAGATTTTGATACTTAAGAGTATGAACCATATAATTAAGAAG
TGATTACCTAATAAAAGATAACAATGGTGACTATTTTAAATTATTTTGGTGGCAGGGGAG
TTGGGTTTTACATCACCCAAAAAAAAAA

Sequence 3995

CCGCGGTGGCGGCCCGAGGTACCAGCTAACGCATCTGGGAGGCAACAAAACAATACTCTC
CTGAGGTTAATGTGGACCAAAACTAGATTTTCATATAAAAGAGTTTATTCCTTCTACTTG
AGGTGTGACATGAAGGAAAGTAATGGAAATAATTCTGCCCTCCCATTTCTCAAGGGCCAGG
GGGAATTCAAATATTGAACGGAAGTGATTTTGGGAATTGCATGGAATTCTCACTGCCATCC
CAAAGAAATGCTGATCTTGTCACTCTTACCTGTTTCATTCCCTGGGGGCAGAACAAAAGG
ACGCACTCCAAAGATCGGCATGAACCAAGAACTGGGTTTCATATAAAATATTTTATTCTG
TCCTCTTGAGATGTGACATGAGAAAAGTATTGAGAATACTTCTATCACCTCATCTTCAAG
AATCCGTAGGAATTCTCCCATGGTGGGACTTTACGGTTAACCTGAACAGGTCTTGGA AAA
AGGACTTTAAACATTCTCCTGTTCTGTGGAATAAGTATACTTTTTTCTGGACATACACCT
TGTCAGTGAGTTCCATGTGATACTAGAGTTGCATAGATTTTAAACCTTTACGCCAATGAA
GATCTGAGGCAAACATTGCCCTT

Sequence 3996

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCGTGTTATGCAAATTAAGCACTTTTCTTCTA
AATTCACATGAACCTTTTAGAGACGTAGACTATGTTATTGAAGTAATCATCCTAAGTGTC
TGTAAGTATTGGAGATATTCTTGCTTATCAAATGAAGTATTTATAAGTGAGTGACGTGA
TGCTTGAGATCTATCTTAAAGTAATCCAGTAGGGCAAAGATAACTTGAGATTGGCCAGTT
CTTGATAATTTTTGAAGTAGGCTGATGAGTACGCGGGGCTTCCTTTTCGATCCGCCATCT
GCGGTGGAGCCGCCACCAAATGCAGATTTTCGTGAAAACCTTACGGGGAAGACCATCA
CCCTCGAGGTGAACCCTCGGATACGATAGAAAATGTAAAGGCC

Sequence 3997

NCCATGCAATCATTAAGGAGAACCAGTAAGAGAGCCACTCAAACCAGATTTTGAACGC
TACTAAAATTAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGGATTCTTTGTAA
TAGTGATACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTGTAGTCTACAGATTATGGC
AAATTCAGTGACAACAATCAAATGGTCTAAGATTGACAGTAGCACAGTTTACTCTGTGA
AGGTAATGTTTCAGGACAAATTTCAAGAAAAGTAAAGAACCATTTTACAGCTGAAATCT
TTCCCTAACCATTTGTTATTTCCACTTTTAAAGTCTCAAGAGATGAGAAAAGGGAGGTAAG
GCTTCCTTATACATTTCTTGCACAATGAAACATTTTCTCTNCTCCAGGCAAAGATTCAAG
CAGAACTGGCAAATATCTTATCTTGCTCTTCTCAATAATAATAATGGTGTAGATAATAA
AGTTCTATAGCAANTTTAACCTAGAACTTTTTTGAAAAGTAATCTTTAAAGTTGAGAA
TCACAGCTGTCTACCAGCATTTCTTGGGCCCCCTGAAGCTGGTTATTCACTTTGGNCTT
TCCTCCCAGGGG

Sequence 3998

TAGGGCGAATGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTTTTATTTTCATGTA
AACTGCCCCCTCTGAGGATTTGGGCATATTTTTTGAAGGTGCCTAATGCTTAGGATAGTC
TCTAGGGTGATGCACTGCACCTGCTTCCTTCCCTTCAGTGCGGCTGACCCATTTCTGTTG
AACAGATGTCTCCTGTGTGATGCCCCCTGACTCTTACATTTATCTTTCTAAATCATTTTCT
GAAGCTGACTTGCTCTAGGGTGCTTCATCACCCTTCCATCTTGCATCACCTTATAACTG
TTCTGTCTTGTTCTCTCCCAGCAATTTATTTTAAACAAGGGCTAGCTTCAAGCATGACT
GTTAATGGCTCCTCTGTGACAAAACACAAGTTGGACCAAGGAGAAAGCCCTTTGGAGAAA
CTGGACCCTAGTTCAAGTTTANATCTCAAATATAGGCTGAAATCTCTTACCAAAGTGCGT
TCCAGATAAA

Sequence 3999

TATAGGGCGAATGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCCTAAAACCTAGTATCTT
TTTCTCTTCTATGGAAAATCCGAAGGTCTAACTTGACTTTTTTGAGGTCTTCTCAACTT
GACTACAGTTGTGCTCATAATTGTCCTTGCCCTTCCAGCTTAATTATTTTAAAGGAACAAA
TGAAAACCTCTGGGCTGGGTGGAGTGGCTCATACTGTAAATCCCAGCACTTTGGGAGGCTA
CGGTGGGCAGATCATCTGAGGCCAGGAGTTCGAGACCTGCCTGGCCAACATGGCAACACC

Table 1

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CCGTCTCTAATAAAAAATATAAAAATTAGCCTGGCATGGTAGCATGCGCCTATAGTCCCAG
CTGCTCAGGAGGCTGAGGCATGAGAATCGCTTGAACCTAGGAGGTGGAGGTTGCATTCAA
CTGAGATCATAACCACTTCATTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAA
AAAAAAGGAAACTCTGTGATGGACATTTGTTTAGTAAATCCCTTCAGTATTTATCCCT
CCTTTCCCCACAGCAGCTTTCTTTNCTGTCAACTAGAAAAGGAGCAGGATGTAATAAATC
ATTTTGGTGTGACTAGGCCACCCACTCTTAATCATCTTCCATTTTCTTAAACATTTAAAT
TTCAAGGCANGTACNCCGGGGGGAACCTTGCACCCTTNGGCTGGGGAAGGCTTTGGGAA
AGTCCTTTAAAGNTGGAGTCTTGGCCTCTTAAGAAATTTGGCCNAGTGCCTTAAANNCCA
AAAAACCTGANTGNCNAAATTACTGGCATNTTCCANGGAAAAAA

Sequence 4000

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTGTTTTAGAA
GATAATTTGTTTTTCTCTCTTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATT
GGTTTGTTTATTATACTTGGCCTAACTATTTGTATAACAATGCAGCAAGAATGATTATTTT
TTACTTAGGCTTTTAAGTAGGCTCTGATGGAACCTTTGTTCCATAGCAGGAATCTCAGATA
AGACTTTGTAAAACCCGTAAAACCCACCCGAGCCATGGATTTATGCCATTAAATACCCAT
GAGTTGGGTGAAATTTCTCTCTTTTGGAGGGCCCAAGATAAACCTGGGGCGTCTGCACT
TGTCAAAAAGTGATATTCTTTACTTACACAGTCAGAAACCCTGTTCAGGGACTGTGTATA
CAGAATATGAGGCCAGTTTTTCCAAGGGCTTTATTGGCTCCGTAAGTCAAGTTTG

Sequence 4001

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGCTCCCAGTGGCGGGACACGG
TGGCTTATTTTTACTCTTATTTATTTATTTATTTTTGGAGACTGAGTCTCACTCTATCAC
CCAGGCTGGAGTGCAGTGGTGCATCTTGGCTCACTGCAACCTCCACCTCCTGGGTTCAA
GCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGCATGCCACCACACTC
GGCTAATTTATTTTTACAAGCAGATAAAGGTTTCTTTTATTTTAATGGCTGATCTATGTA
ATCACGGAGGCCAGNATGTCATTAGTTCCCGTCCGGAAAGGCGGAGACAGCTCAAAGCAA
GACCCCTATTGGGGGCTTCGAAGTAACAGGTAGGTGAGAGACAGATGGTTGCATTCTTT
TGAGTTTCTGATAAGTCTTTCCAAAGGAGGCAATCAAATATGCATNTGTCTCTGTGANCA
AGTGGATGACTTGAATAGAATAGAAGGCAGATTTTGCCCTGAGCAAGTTCCCCATCTTNG
AGGGGCCCAAGAATTTTTTTCTTTTACAATTTTCCC

Sequence 4002

ACAACAGGAGTGAGTGGCAGGTGAGTGAGCATCACCACCCGAGCTCTGCCTCCTATCAGA
TCAGTGGCGACATTAGATTCTCATAGGAGCACGAACCTATTGTGAACCGCACACACAAG
GCCAGCTCCTTATGAGACTCTCATGCCTGATGATCTGTCACTGTCTCCCATCACCCACAG
ATGGGACCATCTAGTTGCAGGAAAACAAGCTCAGGGTTCCCACTGATTCTACATGATGGT
GAGTTGTAGAATTAGTTCATTATGTATTACAATGTAATAATAAAGTGCACAATAAAT
GTAATGCACTTGAATCATCCTGAAACCACCTCCACCCCCAGCCTGGTCTATGGAAAACT
GTATTCCATGAAACCGGTTCTTGGTACCT

Sequence 4003

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGGCTTGGA
GCAGCTCTCTCCTCCTTCCCCGCTGCTTATAAACCTCAGCCCTGAGGCTCCAGCTCACTC
TACCCCATCTCCTTGCCGGGTGAGCCCTGACAAAGGTCAGCTAGCCCCCTTGAGGACAATC
AGCTTTGGCCTCAAGGGGTCTTAANNNGCANTNAGAAACCACTTGANNAGAAGCTTNGA
AGGAAGTCCATTGGAGGACCCGTGGGTCAACACCTTCTTACCTTTGCAAAGGCAGNGA
GGGGGNNNGAAGGATAGCCTCAGCCGTCAACGAAGTTCAAAGGAGCTGGTTACCCAGC
AGTTGCCCCCATCTGCTCAAGGATGCCGGGCTNTNTTGATGAGAAGATGAAGA

Sequence 4004

CGAGGTACATCTACTTAAAGGGACTATTATGTGGAATAATACATACTAATGAAGTATTAC
TTGATTTAAAGACTACAATAAAACCAAACATGCTTATAACATTAAGAAAAACAATAAGA
TACATGATTGAAACCAAGTTGAAAAATAGCATATGCCTTGGAGGAAATGTGCTCAAATTA
CTAATGATTTAGTGTGTCCCTACTTTCTCTCTCTTTTTTCTTTCTTTTTTTTTTTATTAT
GGTTAGCTGTCACATACAACTTTTTTTTTTTTTGAGATGGGGTCTCACTCTGTCACCAGG
CTGGAGTGCAGTGGTGCATCTCGGCTCACTGCAACCTCCACATCCCATGTTGAAGTAAT
TCTTCTGCCTCAGCCTCCCGAGTAGCTGGGACTAGAGGAACATGCCACCATGACTGGCTA
CTTTTCTGTATTTTTTTAGTAGAGACAGAGTTTCACCATGTTGGCCAGGATGGTCTCGATC
TCCTGACCTCGTGATCCACCCGCTCAAGCCTCCCAAAGTGTTGGGATTACAGGTGTGAA
CCACTGTGCCCGGCCTGTGTCTGCCCCG

Sequence 4005

Table 1

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ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTGGATCCAGCGCTGGCTAAAAAATGTCACGTTACCCTTTTTTTCCTTTTGTGGA
GATGGGGGCTCACTATGTTGCCAGGCTGGTCTCGAATTCCTGGGCTCAAGTGACCCTC
CTGCCTCTGCCTCACTGAGTGCTGGGATTACAGGTGTGCGTCACCACACACTATGCAAAG
AATTTTCTTAACGAACCCAACCACGTAAACAGCATTCAAGTTCAACAAACAGAACATAACC
AGTCCCTAGAAGCCCCCTTTACATCTCCTCCATCACTATACCCTGCATATATATACTATA
CATATACAGTATATACATATACAGCATTATACATGTATTACAGGTATATACAATATTACA
TATAC

Sequence 4006

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTGTGATGCACTAGA
GCCCCATGCTCAATCTTCTTTTTCATGTCATAAATGTGAATTGTTTCATCTTTGCTCCCA
GTGACCACAAAACGACTATTTACAGCTACTGCTGACAAGGAGGCAGTGTGAGCATGGTGA
GTGAAGTCAGCCACAAGAGTCCATTGCTGTTGGGGAGCTTGGTTGTTGGAGACGTGAGTC
TTGCCGAAGATCC

Sequence 4007

TTGTTTGCTTGTTTCCTTGCCAGCTTCACATTTTACAGATTCTCATAATAATTCTAAGAA
TAGCTCTAATATGGTTTGGCTGCCCCACCCAAATCTCATCTTGAATTGTAACCTCCACAA
TTCCCATGTGTCATGGGAGGAACCTTATGGGAGGTGATTGAATTATGGAGACAGGTCTTT
TCTGCGCTGTTCTCATGATAGTGAGATCAGTCTCATAAGATCTGATGGCTTTAAAAATGG
GAGCTTCCCTGCACAAGCTCTCTCTCTCTTTGNCTGCTGCCATTCATGTAAGACATGA
CTTGCTCCTCCTTGCCCTTCTGCCATGATTTGAGGCCTCCCCAGCCATGTGGAATGGTAAG
TCCATTAAACCTCTTTCTTTTCATAAATTGCCAGTCTCAGATATGTCTTTACCAGCAGCA
TGAAAAAGG

Sequence 4008

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTGTCCAGGCCACTTTTATTTAAACAGAAGCAGNGGCCCCACAGCCAC
GGGACATGTNTTCCAGACAGTAGACACAGTGCCTGTGGCTGTAAGAGNCTGACNGGGAA
GATTTATGCCTTTCTTCTTGGGCCCCCATGAACCNAAAGGAAGAAAAANTAAAAAATN
ACNNCTACCNTNCACTGNNCACACCCATNTTTNAACCCNCTTTGCCCANAAATAGTTTNG
AACCNCCTAGGAAATGGGNAATTTCAATCCAGGNCTNAAAATNCTAGAAAAANANAAAA
AGNGGTNNTTAAANGAANACCTTTNTNCNTANCAAGNTTTTCCAAGAAAAGAAGTTG
GAGGCNTTGNTTCTCTTGGGCNTTGNAGGGGGTNTTANTTTTNCAAATAAANGCNACCC
CTTAACAATTGGTNNTTGGGNACCAACTTAAATTGGGTTGGAGGTTTCATTNNAACCCAA
GGAAGGGGAAAGGAATG

Sequence 4009

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCATGAGACACT
ATTCTCTCATGAAATAGTTTGGCACTCTTGTAAGAAATCAGTAAGCCACAGATGTATGA
GTTTATTTCTAGACTCTTAATTCTATTCCATTGATCTATATATTTATCCTTCTGACACAN
CCNCTNTATTTTTTAATTACTGGGAACTCTTAAAAGTAGTATTGGTTTTGAAAGTTTGGG
AAAAGNTGTGAAGCNCTTCCTAACTTTTCCCTNCTTCCTTTTATCAAAAGACTGGTTTT
TTTGGCTTACNTTCTGGGAATCTCTNTGGAAATTTNCNATTACCGAATTTTTTAGGGGAT
CNAAGCCTTTATNAAANTTTTCTTGCCCAAACCAAAAANCCAGGNAAGGAAATNTTTT
GAATG

Sequence 4010

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACACGACAGAA
TTAAAGACCTGGAGAAACAGTTCGTAAAGCCTGATGGTGAGAATAGAGCTCGCTTCCTTC
CAGGGAAAGATCTGACCGAAAAAGAAATGATCCAAAAATTAGACAAGCTGGAACCTACAAC
TGGCCAAAGAAGGGANGAAGAAGCTTGCTNGAGAAANGGATTTTTTNATNTTATGAGCCAG
GGTNTTTCAGGGCTCACNAGACCAGGCTTTTGCNAGCAAAAAACTNAGGGGGNTTGNTAA
GNCANGGACACCACCTTGCTTTTTTTAAGCCCCAANNAAGATTGAANTGGGGCTNATN
CAAAAAGGAAAGGGGATCNAAAAAAATGGCNTACCTTGGAAGAAAAA

Sequence 4011

CGGCCGCCCCGGGCAGGTACCACTCAGAAGCCTTCACTGTCAACTTCGGGGACACCGAAGA
GGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACATTGGACATCCTGGACTGATT
CTGTAATTTTCGTATCTTTTTTCTCCCATGTTCCCTTTATTTGTCTTTTGGTTCTGCTTT
TTGGGAGATTTTCTTAACCTTGATCTACCTGAGGCTCAGTCCTCATCTGTAAAATGCTGAT
AAAAGGACCTACCACCTAGCGTTGCTGTGAGGTGTCAGTGAAATAAAATGTAAAATGCTT

Table 1

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AGCACAGTGAACCTTTAATAAATGGTAGTTGTGGTTGCACATAAAANAAA

Sequence 4012

CCGCGGTGGCGGCCCGGGCAGGTACAGAAAATTAGCAAGAGACATTTTCTGCATTGT
GAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGCTTTTGAACCTTTCA
GATTTTGCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGGTGTAAATAGAATCTA
ATGGCAGAATCTGTAAGTGTAACAAGCATCTTAGGAGTGAGAGATCAAGACCACAAAAT
GTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATACTGGAGTAGGGTATT
TTTGTCTTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGATGCAGGTTCTGGAG
CTCTACCAGGGCAGTTCTATTTTCTTTTTTTGAGACAGAGTCTCACTGTGCCCCTGGGCT
GGAGCGCGGTGGCACGATCTTGGTGCAGTGAAGCTCCGCCCTCCCGGGTTCATGTCATTC
TCCCTCAGCTACTTGGGAGGCTGAGGCANGAGAATCGCTTTGGAGGTTGCAGTGAGCTGA
GATTGTGCCATTGCACTCCAGCCTGGGCGACAAGGAGCGAAAACCTCCATTTTACGGGNAA
ANAANATNNNNNANATNTANNGGNTCCNTCGGCCCGNTTTTAA

Sequence 4013

CCGGGCAGGTACTCAAAGACGAATCATGAAAAAGAAAAAAACTTTATTTCAAACAGGTT
CAGTGATATATGTGTGTGCTACAGCAAAGGCTGGTGTGGCAAAGTTTCATTTCAAACCTG
TATGATGTGGGCTGGGCAAGGTGGCTCACGCCGTGAATCCCAGCACTTTGTGAGGCCGAG
GTGGCTGATCACCTGAGGTCAGGAGAGACCGCCTAGCCAACATGCTGAAACCCCGTCTC
TACTAATAATACAAAAAATTAGCCAAGTGTGGTGGGCGCGCACCTGTAATCTCAGCTACT
CGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGGGGCAGAGGTTGCAGATCACGCCA
CTGCACTCCAGCCTGGGTGACAGAGCCAGACTCAAAAAACNAAACAAAATAAAACAAACA
AAAAAACNGAACTGCATGATGTATAATTTTTGACATTATGTGGGAATGTTTAACTTCTGC
CCAAATGTAGATTCAATCCAACATTATGCCCAATTTTATATTAATTTTAGTTCCTTAAGT
TTTCATTACCCAAAAAAGGA

Sequence 4014

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGGCCCTCCAAGTA
GTGTTTGCGAATACACGTCCTGTTGTGAAAGAGGTGAGGAGAAAGGAGTAGGAAGGCTCA
GAGGACATAACAGGCAAAAAGAAACAAGAGAGGTAAATAAAAAGAATTAATCTAATGGCT
TCACCCGGCTTAGGCGCAGTTTTTAAGGGGCCTGACCCAGGCTTCGGGACCCATGTTTCTA
GTTGGGCTCTGTTGGCCTTTTTGTTGTGGGAGTGATGAATCCAAGCAGGAATTCCATCCA
CCTTCAGAACCCTTGGCGTCGTGAGGATGATGGTGTGAGGTNCCTTCCAAGCAGGAGTG
AGTCCTTCTTTCTGGAACTTTTTATAACAAACACTTNGTTTCCNGNCTTGAAACNATATG
NGCNNGGCCCTNTCTGGTCAGGGAAGTGGGATTGGG

Sequence 4015

GAAAAGAGGTTTTCTAGCTAGAAATTCGGGGCCCAGAAGGTCAAGGCTCCAGAGATCCCC
TTCTCATCNTCCTTCAGTTGTCTGAGGAGACNGAGGATCACATGTNNCACAGGTGAGTGC
TGNTTNCCCANAACTCTGCAGNCTTAAGCTNCCCTGCTGACGCACACAGCCAGTTCTCTGC
TTNATATTCATGTGACCC

Sequence 4016

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTTTGATTTTTTTTATTTTTATTTTCGTAGAAACGGAGGTCCAGCCAAGTT
CCCCAGGCTGGTCTCGAACTCTTGGCCTCAAGTGATCCTCCATGCCTGGGCTGGAAAACA
TAACCTTATGGGAAAGTTCCTAAAAATGGTTGAAGAACAAGACTGAAGGCTAGAATATGA
AAGCTTAAATTCTGATTCTGCCCCCTTCCTAGTTGCATATTCCTGA

Sequence 4017

CCGCCGCCCGGGCACGGTACAGTTCACATTAATATTACATCCCACCTTTCTGCTACTTCT
GTCAGCTATACTCTGGAGAAAAATACAAAGAATGGACTTACACGCTGGGCCAAGGAAATA
GAAAATGGTGTATTGATTAGTGGACAAGTTAAAGATGAAGATTGTGACCTATTNGAA
AGGACAGAAAAAATCTTCTAGAGGGAAATACTCAAGCAACTAGTCATTCTTTTGATGTCA
GAGTGCTAACCGCAAGTTGCTCCTGAATTCAGACCACAGATCCACAGCCACAGTCCAGAT
ATGTAGCGGTTCTGTAAACCTTAAGGGTTGCTGTGAAATGCAGAGCTTATATCCACAGCA
GTAAACCCAAAGTTAAAGATGCTGTGCAGGCAGTAAAGAGGGATATATTGAACACAGTTG
CTGATCGTTGTGAAATGCTATTTGAGGA

Sequence 4018

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGTAATTTGATCTTTATCAAGGG
CATATCCTGGGAATCAGGGAGAACTTCTGTAGCCTNATNGACANGACCTANCCCNCAAGG

Table 1

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CACCCNNGGAAGAAGGGGAAGGCTTGTNTGGGGTNTTTTGGGAAAGCAATGCCNATTTT
CTCTCTTGAATNAGGGCACCATGCCTGGGGGCACAC

Sequence 4019

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCGAGGTCATTTTGCTTCCTATAGACTGCCACC
TTTTGGCAAAGCTGTTCTAACTCCATCTCAGCATTTACAATTCCATACCTGGTGGTCAG
AGGAGGCCCGCCTGCAGGCTCAGCTAAATCGGGCTGATGGCATTCCAATTACTCAGGCTC
AGCTTCACAAGGCTCCGATAATTACTCTGATACTACTGCTCATTTAGGCTTTGATGCTCT
CACCACGGAACAAGTAACAAAGGTGTGTATGAGAGCTTGGGATAAATTACGCACCCCAGG
CCAAGCTTCTGTTTCTTTTACTATTGTAAACAGGGTCACAATGAATTATATCTTGATTT
TTTAGCTAAATTACAAGATGCTGTTGAAAAATCTGTCTCTGGATGAGCACACTCAAGGTA
TTCTTCTTCATATGTTA

Sequence 4020

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTGTGACTGTCTTATTTCTGGGAT
TCCAGATGCCCATGATAAGAGTGAGTTGCTCCTTGCTTCAACTCACCCACTCCACAG
GAGTCACTGAAGGCCATGAACAAGTCCCAGTGTGCAGTAGCCCTGTGCAGGGTTCCCAGC
TTCTTCCCCTTTCAGCCCAGCATCTGTTTCTTCTTCTGCCCCACTCTCAATGCCTCCCTT
CTGAAGATCTGCTAGGAGTGACCT

Sequence 4021

GTATACTCCGACTCTATAAACTTACTCTTCTTTAAAGCAGATCATCCTATTTATCATAAG
ATTATTAAAAATGTATACCTTTTGCTTTTATTTGCCATAAAAAAGCTTTCTTTGGAATAA
AATAGATTTTATCCAAAGATGCAGAACTGTTTTCAGATAAATCCAATCTGATCAATTT
GACAGATTAAGACTCTCTTCAATAGTAATTCTCAAATTATTTAAATAATTTATGAAACA
GTAAAGGCTNAAAATTATCGAATTACATAGCCTTAAAAGNTCTAGATCCTTCATGGATTT
TATTTTCNTGGTTTATTATTGCA

Sequence 4022

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTTATTAAAAATAAA
AACTCGCATTTTAGGATTAGGGAAGTCTGGAAAAAATTTTTTAAACTTGGAGATCACA
TATTGAATAGCTGTCAAATTCAACTGACTAGTTTTGAAGAACTTCAAAAACGTGTTCA
AATGAATAAAGAACAAAAATGATCAAAGAAACCCATAGCTGCCTAAGAGTCTTAAAAAT
TATTAATGTGACACTCTCATCTCTCATCAAGTGTATCCAAACCACTTCTCATTTGCTCTT
TCCATTTAAAGACTCACAGTAGCTTCACTACACATATTTTATACTGAACATGTACCTGC
CCG

Sequence 4023

TGCGGCCGAGGTACCCTGCTCTGCAAATCCTAGCCATTTTCAGCCTNCTTTGAACCCCAAT
CTGNCTCCTAAATTCAGCAAGATCGCCAGGCAGAAAGTTCATCCTAGCGCTCATCCCTTT
CCAGTCTACTAAGGNAATGCTCTTTATNTATNACTCTATAAGTANATACGTATNTAGNTT
CACACAGACCAANAAATTTTANTATNTTCAGAAGTCGTACAACCANTGANATTTTNCANA
CTAACAATATTATAACGGGGGGGCCCTANCNTGTTGATGATCAAGAGACAACATTGNTCTC
TCTTNAAAATATTNTGAGAAGGCCTTACCAAGGCNTTTATTTAANCCCCATATTCCANTT
ACNNANAAATCTTCCCTTTTCCC

Sequence 4024

CCGCGGTGGCGGCCGAGGTACGCGGGGGGGCATCACGGACCTACCAATATGTGATGTCAC
CCCTGGTGGCCCAGCTGTGTCATGGANAACTCCAGCTGGGCCCANAGATTCTGCATCGG
GAAAATCCAANGCT

Sequence 4025

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAGAAAGCTACTATTTATGTAAAAAGCTAAAAT
ATAAAAAAGGTATACTCACACACATAGAGTTTGGTCACAGTGGCTATCCCTGGAGAGTGA
AAATGGTAGGAGGGAGACAAACATTTCACTACATATTTGTTTAAACCTTTTGAATGTTGT
GATATTTGCATATATTATCTGTTTAAATATAACAGATACACACACACACACACACACAC
ACACACACACACACACAAAGATTAAGATTTAGTTTTCAGGTTGGCCTTACGAGGCANA
CAAGCTAATTCNNCAATATTCCCCCGTTTACTGCATGGGCTTGGAAA

Sequence 4026

CCGCGGTGGCGGCCCGAGGTACAGTAGTATTTAACCTGGATGTGAGGACGAAGGAGGAAA
TTTTCTGGTGAATACAGAAGAGCAAAGAGCAGCAGGTGAGCAGGAATGACTAATGTTTTT
CTATGCACGTTTAAATGGAAAATTCATGTAGATATTTTGAGTAGGTAATTGGATAACCAGC
ATTTATAACTCGCATCCTACTAGTTTGACTCTCACTAATAAGACTTGTCAAAGATCCAAG
AATCTGAAAGTTGATGATAAATGTCCATGTGTATCACCATCAATGATCAAAGTTAGCAT

Table 1

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CCACAACATAGAATGGGACAGATGAACTTAATGGATAAAGATGAATATCGGAGTTGTTCC
TTTTAGGGAATGATACTCTCCATGACCTGTGTGAGTCACAGCTGCAGAAAAGAGCGAGCA
ANGAGCATATGAAGGCAGCCCAANCAAATTCAGNCCTAGAGNGCCCTGCTTTGANTTCAT
GTCATAGNTCTGACTTTCTAAAAAATCATTTTTNTGCAAAAAANCCCTTTGATTTTTTTN
CCCNCTTGCAAGCCCTGCAANCCAAACNAGAATCCCCCTTTAGCCANGGGGCTTTTTTG
GNGGGTCTTTCCTTTTAAAACCAAGGCTNTTTTTTTTAATTACCNCAAATTGGAAAAAA
AAAAAANNNCCCTTGCCNNGGGGCNNGGGCCGNTTTTAAANCNTATNTGGGGNATN
CCCNNGGGGCTTTCNNGGGAAATTTTNANTAATTCNAAAGCTTTTTTCGGNATCCCCCG
NCNNAANCCNNCTTCTCAAAGGGGGGGGGGGGGGGGGGGGGG

Sequence 4027

AATACGACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTA
TTGATGATGTAAAAATGAAGCTCAGCTCTTGAAGAGCTAGAAAATTTAAGAAGTATCTT
TTTTTAAACCATATAAAAGATATAATGACTAAGTCCATTATGATACATCCTTAACATGGA
ATCTTGTAAGTTATTTAAATGTTATAGAAGGTCATTTAATGTTATGGAAATATGTTACAG
GAATATATTTCTCTAAACAAAGANGATTTACNGAAATATATAGAG

Sequence 4028

TCNCCGCGGTGGCGGCCCGCCCGGGCAGGTACAAAGAAGAGCATCCGTTTCGAGAAGCGCCG
CTCTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAA
GGCTCCCAAAGCTCGGATAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCT
CACAGTTGGTCAGTTCTACTTCTTGATCCGGAAGCCGAATTCATCTCCGAGCTGAGGATG
CCTTGTTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAATGGGTCAAGCTG
TACGCGGGGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACAAAGCTTATTCATTACAG
ACAAATAAAACACCAAAAGCTTTAAGTTATTTGGATTTGGNGGAGGCAACAGAACTTGGT
TATGAGCAAAATGNACCGGGGACTGGGAACC

Sequence 4029

CCGCGGTGGCGGCCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTANCNAGAATCATGA
TTTTTAATTTGAATTAAANCATTTTTTTTNGCTTTGTTAANATGAGGCAGGCCTTNTTGC
TGACATTTTAAAAGCAACTATTTTTCTTTAGTTACACTATGAGGCATTGGCTCCAACCTG
TCAGCATTGAACTGTCAGCAGTTCCCTACCAGGAACTGGTTCCAAGGTCTAGGGTTTC
CTTAGGTAGAGGCTGGCNCTGTNAAAATAANGGGGCTCTTTATCCATGTCACCTGGAATG
GAGTTAATNCCCTGCCAGTCTTAGTTGATTTGACATACTAACAGGATGGGTCTTGAACGT
TTTC

Sequence 4030

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTATATGGACACCAACATGGAGCAGAAAATGA
GGGCAGCAGNGTCCAATCTNATTCAGGTGAGAAGTTGCACAGTGTCCAATAGGTGCATA
CATCTCCTTAGTAAGTAGTTGCGATTAACANTGAAATATGAAATGAAAAATATATTTTTT
TATTTATGNGTATTATATTTTTTNAAGCANCTAATAAGTNGGNAGGACATAATATTTAATT
NGTTGGGGA

Sequence 4031

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTTTTTGTGTTG
TTTTTTTCTCCCTCAAAGTGAAATGAGAGACTATTGTAGGGTTTTGAGCCAAGGAGTGAT
ATTATCTGAATTCTGTTTTTAAAAGGTTTCATTATGGCTCCTGTGTGGAGGCAGGGTAGCTA
CTTAGAAACCAAGCCATCTCAGCCTCCCGATTTGTAGAGATGTGGTCTCACTATGTTGCC
CAGACTGGTCTTGAACCTCGCCTCATGTGATCCTCCACCTTGGCCTCCCAAAATACT
AAAATGATAGATATGAGCCGCCACACCTGGCCATAAGCTTCAGCCTTGAGCAGATACTTT
CTAAACACTTTATATAGGGAAAAAAACTAATTCTTGCGTA

Sequence 4032

CTACTTAGGGCGAATTGGAGCTCCCCCGCGGTGGCGGCCGAGGNACTTTTTTTTTTTTT
TTTTTTTTTTGGCTTTTTTGTGTTTTTTGTTTTTTCATTTTTTNGTGTGTTTAT
TTTTTTATATTTTTTTTTTATTTTTTATTTTTTGCAGCCACAGGAGTTTAGCCATTTTCA
TGCTTGCTCCCCACAATTTTGAAGATTCCTTTGGATTTGACCAAAGTCAGGAAGAGAT
GGGANAAAAGTGAAACAACNACNATNAAACCCNAAACNTNAAACCAACCGAAA

Sequence 4033

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACATGGA
TGAGAGCCGCGTTAGTGCTGGGAGGAGGTCCAGCAGAGGCTTTTGAATGTCTGCAGTGA
AGCACTAAGTTACTTCCTCACTCTAACATCAGAAAGTCATCGAGAAGCCTGGACTAACTT
ACTGCTTTTGTCTTAACATAAGTTCTAAAGATAAGTGATAATAGGGTAAGTATGAGGCT

Table 1

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TCGAATCCAGCCCCACATTTCTAGCCCAATTCGCATTGGGATGCGGGGTCCCAGAGCCGC
CGTGCAAGAGCTCTTAGAGATGAATCAAGCAGTGCCCAGGCTGCACTGCTGCTTGTGCAA
AGCCACCAGTGGCCTTTGCTGGATCTTCCTCAGTCCTTGCTTTTCTCCCC

Sequence 4034

AGGTACCTGTTTGTTTTACAACCTCAGGCATGACATTCTTTCTGGAAAATTGAAATGCCCT
TATGAAACAGCTGTGGAATTAGCTGCTCTCTGTCTACAAGCGGAGCTTGGGGAGTGCGAG
CTTCCAGAACACACACCAGAGCTTGTGTCTGAGTTTCGGTTCATTCCAAATCAGACAGAA
GCAATGGAATTTGATATCTTCCAGAGATGGAAAGAGTGCAGGGGAAAGAGCCCTGCCAG
GCGGAACCTCTCCTATCTGAATAAAGCGAAGTGGCTGGAAATGTATGGGGTAGACATGCAC
GTTGTCAGGGGAAGNAGATGGCTGTGAATATTCTCTTGGACTGACCCCGACAGGCATTAT
TAAATCTTTGGAAGGGAGCTAACCAAAAATAGGGCTTATTTCTTTTGGCCTAAAAA

Sequence 4035

CCGCGGTGGCGGCCGAGGTACCTACAGGTTAAGCTATCTTCTAAAGCTCTTTAGGGAGGA
CAGCTACTTTTTTGCTTTCCCATTTTTGACTTCCAGAAACACTTTTAATTCCTTAAAAAGT
ATTCTAGTTCTGAAAATCCTAAAAAGCTTTGCTACATATTCTACTCACACAATTAAGCTC
CATCAAAGTATGCAAGTTGTGTTTTTACTTATGCTTGAAAGTTGATGCTGCGAAGTGAAA
ATACTTCATGTTGACAGTTAACACTCTGACCTGATTCAAGGCCAATTCTCAGTCCAGCTT
TTCAGGAAAAAGCACTATGTGGTGAGGAATAGGAGATAAAAAAGTGGCAAACAAAAACAA
AACAAAAAAGGTACCTGCCCGGGGCGGCCCGCTCTAGAACTAGGTGGGATCC
C

Sequence 4036

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGCAGGTACTTTTTT
TTTTTTTTTTTTTCGCATTTTATTAACCTTGAAAGCTATGGCTTGCCGCCATCAATGA
CGCCTATTGGGTTCGAATAGCCTCATGTTCAAATCTGACTCGTTAGCAAATCCACCCAAC
TCAACATCGGTCATCTTGACATTGCAGGATATTCAGCAAGTCTGAAGTTTTTAATCGGGA
AGGATTTTCTACCGTTACTGAACAAATAAAGGTTCTTTGTAGCAATGGCTGGAAATGCAA
CCCCGCGTACAGGACCAGCTCGGGGGGGTGTGGCACCCGAATGGAAATCCATGAGCAGCA
CCGTAGGCAAAACAGCCAGGAGGAAGGCCGATNTTNNAANACCCACATTCCAGGGAAAA
GACCACCNAAGGGG

Sequence 4037

CCGCGGTGGCGGCCGAGGTACTCTGGTTCCAGGGCTCAGAGTAGCAAGAGTGCTGGGACC
TGTCTGAGAAGCAGTGCTGGGCTGTGGATGCTTGCCGTGGCACCAGATGCCTTACAGTG
GCCAGGAATGCTGCGGGACAGTCTACTTTGATTGCTTTCTTTCTCCTCCATGGCTGAGATCT
GAGTGTAGTGTTAACTGGGCTTAAAAATCAAGTCCGTGTATCTGCATGGTCACGTAGTT
CGGCACCTCATGGCTTTTGCACCTAGAGGTGTGAACCATAATACCTGAAACACAATTTCA
TAACCTGGCTCCTTGGGCTTAGCCTATATGGTGGGAGGGTTAGGGTCTGTATATCATCAA
GGACTGTGTCTTTGCATGGGTTGTCATTTCTGTTTGGGAATTGAACCTTTCTTATTCTG
TAGGCCCTAAGG

Sequence 4038

CCGCGGTGGCGGCCGAGGTACGCGGGGGGATTATGTGTCTTGCAGTTGACAACGGCAGTG
ACCAGTGCCTTTTTACTAGCAAAAGTGATCCTTTTCAAGCTTTTCTCTCAAGGGGCTTTT
GGCTATGTGCTGCCCATCATTTTCATTCATCCTTGCCCTGGATTGAGACGTGGTTCCCTGGAT
TTCAAAGTGTTACCTCAAGAAGCAGAAGAAGAAAACAGACTCCTGATAGTTTACAGGATGCT
TCAGAGAGGGCAGCACTTATACCTGGTGGTCTTTCTGATGGTCAGTTTTATTCCCTCCT
GAATCCGAAGCAGGTAAAAAATTTGATTATTATTTGTGCTTGTATCTCTCATTCAAAGGC
TCTGCTCTTCTTCCCTTTCCCTACCCCTCTGTTTT

Sequence 4039

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATTTTACAGCTC
ACTGCAACCTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAAGTAGCT
GGGATTACAGGCGCCCGCCACCAGACCCAGCTAATTTTTTTGTATTTTGTAGTTGAGACCA
GGGTCTCATCATGTTCTCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATCCACCTGCC
TCAGCCTCCCAAAGTCCCAACGTGCTGGGATTACAGGTGTGAGCCACTGCGCCCAGCCCA
CCTATCTTATTTTTTAAAGTGAACAATTTTAATTTCTTTTCATCACATTNTCCATCAATAC
TCTTCTTCTGGGTATAGGTTCAATTTAGGATTACTCTGTAACCATGNGGGAGGTAAAAATT
TGGCT

Sequence 4040

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACTTTTTTTTTTT

Table 1

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TTTTTTTTTTTTTTTTTGGGAGACGGGCTCACTCTGTCAGCCACGCTGGAGTGCAGTGACA
TGATCTTGACTCATGGCAGGCTTGACCTCCTAGGCTCAAGGACCACCTCCCAAGTAGCTG
AGACCACAGGTTTGCCCCATCACACCTGGCCGATTTTTATTTTTTTGTAAANATGGGGGT
TGTCAGGCTGGTCTCAAACCTGAGCTCAAGCAATGTGCCCCGCTTGGCTTCCCAAAG
TGCTGGGATTATAAGGCGTAAACCACTGCACGCAGCCTACCCTNTGCCTTTTTTAAGATGA
ATGTATTTTTATTTTAAATTTTTTGCCATCATTTGGGNGCCTTCACCTTTCCTGGTGGAAG
GGAAAATTC

Sequence 4041

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACT
GCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCCTCAGCCTCTTGAGTAGCTGGGA
TTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTTAGTAGAGATGGGGTTTC
ACCATGTTGGCCAGGCTGATCTCAAACCTCCTGACCTCATGTGGTCCACCCACCTTGGCCT
CCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCTCAGCCTACAAGCAATTTTTTAA
AACTGTACACNCTATTACTGATAAAATCTCTGTTTAAAATCCTATTTACTAATTTTAA
AGATTAAAGGTATTAAGTTTTTTTTTTTAAATANCAATTAATTTNTTGTTTATTTGGATTA
AA

Sequence 4042

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGACTGCTGATCTGGAGGCTGGGACAAAGACT
TCTGGTGCACAAGCAAAAAGAAGCCTTATATACCATTTACCTGTATCCAAATTTCCAGCA
GCCAACGATGGCGAAGAGCCTCATAGCAAGATGTGGCAGTGGCCGCCACTTCCCATGACA
AAGGGAGGTAGGCATGATTCATCTCTAGTGCATGGGGACGGTTGCCTTTTGCCCCAAATC
AACTCAAGACCCCTTTCCACCATATGTCTGTATGTAACCTCTAAATGCATCTCTAAGGACC
TTAAGGAATAAAAAAGGCCACTGCTACCTGGGCAAGGTGGGATGAAGGGCAAAGGAGAA
GGACATACCCCCCAAAGGAACCTATAAGCACCTCTGGCTT

Sequence 4043

CCGCGGTGGCGGCCGAGGTACATCTGACTATATTCCACTGGCTTTACACGGCTCGCTTTA
GGGATTGCCACGCTCAGCCGCACAGGCTTAGACCCAGTCCCCTGCTCCCTGGCACTCC
GTCAGGGCTCGCTTCTGTTCCAGTTCATCTGTGAATTTACAAAACCATAACCCTTAGAC
ACGCCTGTCTGGTCCAAAACCACCTTGCTTCCCCGACAGGAGGGGTAGACTTTGACGAAG
AATTCATACAGCATGCCATCATCCACGTCCGGGGTCAGGGTCCCCCACAAAGAGGGGAA
TACTCAGGGGCTGTTATTCTGGGTGGTTTCCCGGTAAGTGGGCATAGTTTTTCAAAGTTT
AAAAAACCGTTTCGCCCTTGGCCCCAAAAACAATCTTCCCCC

Sequence 4044

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTGATTGG
TCTTTCCATCCTTCTTAAGATGTTACGGGGTGAAAGCCCCGGGACGTGCTAGCAAGCTGCT
CCAGTGCGGGACACAGAGTCTCTATCACAGGCTGCTCCGGTGCGGGACGCGGAGCCTCTA
TCACAGGCTGCTCTGGTGTGGGACACGGAGTCTCTATTACACAGCCTTCTTTTGTGTTGGG
GGGCTAGTTGTTGTTGCTGCTGCTGCTGTTTTTTCACAATCCTTTAAGAATGTAAAGACTA
TTATTAGCTGACAAGTCATTTAAAAAANGTACCTCGGCCCGCTCTAGAAC
TAGGTGGGATCCCCCGGGCTGCA

Sequence 4045

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCATGGTACGCGGGGGCC
AGTGACCGGAGGCGGCGGGCGAGCGGTTCTTGTGGGCTAGAAGAATCCTGCAAAAAT
GTCTCTCTATCCATCTCTCGAAGACTTGAAGGTAGACAAAGTAATTCAGGCTCAAACCTGC
TTTTTTTTTGCAAAACCCTTGCCCAATCCAAGCAATTTTTGTCAAGAAAGCTTCTTGCTTC
CTATCCCTCACGATGGAAATCTCTATCCCAGACTGTATCCAGAGCTCTCTCAATACATGG
GGCTGAGTTTAAATGAAGAAGAAATACGTGCAAAATGTGNGCCCGTTGGTTTCTGGTGCG
CCACTTNAGGGGNTTGGTTAGCAAGGCCTTCCAGTATAAACTATTATTGGTGGCTCCTG
TAACTGGTAATTGATGTTTGAATTCGTA

Sequence 4046

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTCTAAAATGAGGATTTGGCCATTCAAAAAAACAACAACAAAN
CANAACCCACACATACAAGAAGAAAAAGAGAGGCATGCTTTACAAAACAGCTATTNA
AAGTCATNATTTTTAAAAAAACTNTNCAANNTGTGNGAACCGAAGNGGGAAAAAA
GTTCTCATGTGGNTTGGCGTCCGCACTGCANCTGNTCCTNATTAAAGGTCTNTTTACTC
CCTCTGGGCTAGGTTTNCAGTAAAAATTTTTTAAACANAACCTTTGTTTTTCAACCNACT
TTTTTTNTNGCCCTGGGGCCT

Table 1

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Sequence 4047

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACGTTCATAGAGTT
CAGTTTGACAATTAACATGTATATTAGTATGGTTGCCTGTGTTTGTGTTATGTTTCACTG
TGTTTCATCTTCCTGTGCCTGGGATCCCCCATGCCCTCCTTTCCTATCTCTCTCAAACC
AGCTGTTTTTCCCCATCTGCTGCATTTTGGTTATAGATATTTATTTGTAGGTTTGCTTTA
AAACAAAACCTCCTCTAAATCCTACTTGATAACCATCCATGCTCTTTACTCTCTCCTGTCC
TGGGAGCTCTCTTCTAACTCCTGCCCTTCATTCTCGACGCCTGCCTGGCCTCCTTTTGG
TTCCTTCTCTACAGCATTGCTTCCACCCACCAAGCTGTAGTGCCCCTGGTCCCTTTA

Sequence 4048

CCGCGGTGGCGGCCCGCCGGGCAGGTACTCAGCAAAAAGCTGAGTTATTAGAAAATGGAC
ACTAGCCTGTGCTTGTGGGCATAAATTCTCCATCTATGAGAAGGCATGAATTGAGGCACT
ATATTGATTACATTATGTTGTTTATTCTCATATAACTCTCTATTGNTANAAAATGATTTT
CTAGCCCCATCTTTCAAGATGGGGAAATGGAATCCTAGAGAGACTTCATTTTCTCCTAT
ATTTGTATTTAGCAATTGCTATTGCTGCCATAAGAAAATAACACAGGGTGGCTTGAACAA
CAGAAATTTATTTTCTCACAGTTTCTTGGAGGCTTGGGAAGTCCAAGAATCAAGGGTGCC
AAGCAAGGCNTGGTTTTCTCCTGAGGCCTCTATCCTTGGCTTTGG

Sequence 4049

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCATCTATGGA
AAAAGCAATGGAAAATGAAGTGTCAATCAAATAATGCACCCTTGGCTGACACAAATTAAT
TGAAGCTAAACCTAGAACCCTTCTTTCTCACCAAGATGGCAACTTCTCCCAATTGTTCTA
AATATAAAATCCCGGTTATCTGTCACTTTACCCACTCCCCCTCTCCCCAGTCCGATCTGT
TGCCAAATCCTGTAGTTTCTACCTCCATAACGGAACCTCGCAATCATCTCCTTCCATTTTC
TCTCCATTCCAAATCTAGAAGGAAAAAGGAAACCAGNATTACATTTTGTAGTTTCATCAG
CCAAGGTTAGGAACCTTTTCTGTCAAAAATTTTCAAGTTGCTCATGGCCCTGTTAACCC
CC

Sequence 4050

CCGCGGTGGCGGCCCGCCGGGCAGGTACNCGGGGAGAGAAGGCCCGGAGGGGCTCTGCGT
NCNGTAGTGGCGCTGCTTGGGCCCGTGGCGGATTGTAAGCTGCTGGTTTTGCTGGCTGGG
AANANCGGCGAGAGGGTTTCGGCATTTTTCGTCTGGATCCCCGCAAAGGGATNAGTGCTGN
CATGAGAGTCTCACCCGCATGGGGTGAAGCGTTCAGCCTCCCCANACGACGATCTGGGAT
CTAGCAATTGGGAGGCAGNANACTTGGGTAAATGAANAGAGAAAACAAANGTTNNTGAGAC
TTATGGNTTGCAGTGAAAGAAAGAAACATTACTGGTTCGNCTTGTTTATAGGTAGATCAN
NAAATCAACATNTNACTTTCCNAACTCGGTCCAGAAAAGTTAAAAATNTTTNATTTTAA
AA

Sequence 4051

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCATTTTGTCCCTTG
ACTTTAGTGTAGTGGTGGGGTCTTTNCCACCACCCCACTAANCCTTGGNAACCTCATTTT
GNGGCCTTATTAT

Sequence 4052

AGGTACCCTTCCACTCCTACTCCACTTTGAGATATCCACCTTTTTAGGTTAAACCAATA
TGTAGCCTCATGTATTGATTNATGACTTTGCCTGTAACCTCTGCCACGCTGCCTTTAAAA
ACCCTTACCTGTGTAAGCCATCTGGGAGTTCAGGTCTTAAGCATGACCTCCCTGATCCTC
CTTGCTTGGTGGCCTGCAACAAATGCCCACTTTCTCTCCCTGCAATCCCGATGTCAGTG
TGTGGCTTTGCTGCTCTGGGTGGGCAGACCAAGTTCAGCAAGTAACCATTCTAAGGAGG
GTGTTTACACCTTCTTCATGATCCCTTGTCAGTGTTCATCCTAAATCCTGATTCCAACC
CAATTATCTGTTC

Sequence 4053

CCGCGGTGGCGGCCGAGGTACAGAATAATGCCTGTCACATAGTAAGTATGTAATAAGCAT
TTATTATTACTTATCAGGGTATGATTTATGAATTGTGGAACCTGGGATTATGGGAGAGTC
TGGCTTCAATCAAGGGCTGAAATTCCATTTCCACTGACATCTCTTCTTCCCCATCCCC
GATTCTGTCCTGCAACAGGGTAACAAGAAGGGGCCCTTAGGCCGTTGGGACTTTGATACC
CAGGAAGAATACAGCGAGTATATGAACAACAAAGAAGCTTTGCCCAAGGCTGCATTCCAG
TATGGTATCAAAATGTCTGAAGGGCCGAAAACCAGGCGCTTCAAGGAAACCAATGACAA
AGCAGAGCTTGATCGCCAGTGGAAGAAGATTAAGTNGCAATCATTGAGAAAGAGG

Sequence 4054

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTAATAACAATA
CCTGACTACATGGTTACCACCCGTGACTACTGCATTGCAGCTTAAACATGCTTTGGTCA

Table 1

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NTAAATTTAAAAGATNTACATCAAATAACAAGGCCAGAAAANCTGGTTTAAAANTNTCCT
GACCTTAANTNAACTTTAAATACATTGACAAGGCANAAAAAATATGATCAAATATACAG
AANGGTTTCTATTTTTTTCAACCATTGTCATTTTATATTATTAATTTTCGCTGGGTAAAA
TAATATTNTATACTTCCTGTGCACTGATNATCATGGCTCTCCGAATTAAAACT

Sequence 4055

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACANGCCTGTGT
ATTCATATACCCGACCTGGGCTGATGATTGGGAATTCACCAACTACTCCAGGTCCTTGAA
CTTCTTCCACGTCACCCCTAGCATTTGTTATTCTCCAATAGCGACTGGCCAACCTTGACAG
GCCTTCTCAGGAAGTGCATCTTTTGACATTTCAATCCTGATTCGGTATGTGAAGAAATAG
TGGGGTGGGATGTACCCCTCCAAGCCGGACAACCCGGGCGAGGACGCACCAGCGGAGGAC
ATGGCCAGATACTACTCAGCGCTGCGACACTACATCAACCTCATCACCAGGCAGAGATAT
GGAAAACGATCTAGCCCAGAGACACTGATTT

Sequence 4056

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCACCTTCCTTCTGTGNATACGAT
GAAACAAATACTNCATCCTGCTCTGGAAACCACTGCAATGACATTATTCCCAG

Sequence 4057

CCGCGGTGGCGGCCGAGGTACGGAAACAAAAGAGATAATAAACTAATAGTTATTTAATAT
GCTGTAACAACAAATTAGAAACATTGAGAATTAAAGTGTGTTTTCTTTGTAACAACTTA
TCAAGAGTAGTTTGAACAAGGGTTGGCCTTCTTCTGGTATAATTTAGATACATATCAGAG
CAAACATCTTTTCTGTGGCTTTGCAAGTTGTCATACTGTATTTTGTGTTGGATCAGCTTCC
AACATTTTATCTTTTATGCTTTCAGTATTGTAAAATACCTCTCAGTTTCTTTAGCATGCA
GTTTTTTTTTTTTTGTAGCGTCTCTTCTCTAGGGACCGTTGTCATTCTTTTCATCACTC
CCACTTTCTTCATTGCTAAGTTGGC

Sequence 4058

CCGCGGTGGCGGCCGAGGTACTACGGAGAGGTCCTGTGACCTTTCCAGTGCCTCANANAG
TGAGAATGGGAAAGAGGANTGGATGAAGTATGGCTTACCCTCCTGTGGGTACCTCTCT

Sequence 4059

CCGCGGTGGCGGCCGAGGTACTGATCGTGTAAAGCCCTGGGACGCTATTGCTGGGGCTTTG
GCTTTTACTCTGACTAAAATGGGAACCAACCGAGGGCTTCTGAGCAGAGAGGCGACATGAT
CCGTCTCCTGATTTAAAAGCACGACCTGGCTGCCGAGTTGAGAAAAGACTATTGGGAAGA
TTTGGGTAGAAGCATGGGAGCCAAGCTGTGGCAACATCCCGGTGGGAGATGATAGTGATC
CTGACGGGGTTTCATGGTGGTGGTGAGAGATGGTTAGAGCCTGGATACATGTTTGAAGTCA
GTCAGTAGGGATTTTCTTGGACAGACTNNGATGTGAAGCCTGTAAAGAGAAGGGCAGNTG
GTTCAAAGGTTTGGAGTTTGAATTCTTGAATTTGGAAATTATTTAAAGTAAATTTTTTA
AAAAAAA

Sequence 4060

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTAGCAATGAGGCTGT
GTTGATGAGGAAGTGCGCAGCATCATACTTGGTATAGAAGCTGGCCAGGAGATAGAGCAC
AATAGGAGAGATGCTGAGGAACCTGCGGGAAGAGGTAACTGGAGCCCATAGTCCATTTG
CTCCAGTGCTGTCAGTAGCCGAGCCTTTCTTGGTCAGGAGTCTCAAAGGGTGTCCCTT
TCACCGTATGAAGGAAGACATACGTAGCCAGGTTATGGATGACGTTGGTCAGGGTCCAGA
CAACAGGAATGCTGAAGAAGGGGATGCTGAGTAGAACCATATGGCAGCAATCCTACCCAA
GGATTGATGTTAGGGCCAGCCAGATGCCCTCGGCTATTTTCATCACTTCGGGGTGTGTTGGG
GGGT

Sequence 4061

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTGAATTTCTGTC
AGTTAAGGGGTTCACTGCTTTGGTGGAAATTGGTGGAAATTGCTAGCAGGTTCCACGATG
TTTATTTTTTTCTCCATGTTGTATATCATTACCATTTACATACGCGTTTCTATTTTTCT
TCTCTCCCTCTGATCTCCTTAAAAAATGAATCTAGAGTTGGTGGCTTTTTCCCCCTCCT
CTTTGGCCAGTTCCACAGTTCAGTTCTTCTGAAAACAGGGATGATGAACTTGTAGGATC
AGGACAAAATGTGTGTTTTTCAAAAACCTTAAGGCTGGGTGTGAAACACCTTCTGTGGACA
AGGATTTGTAACTTCTCTCCTCCCTCCAGCTGCGGCNCCCAGNCCTAACTGGA

Sequence 4062

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACT
GCAACCTCTCCCTCCCGGTTCAAGTGATTCTCGTGCCCTCAGCCTCTTGAGTAGCTGGGA
TTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTGTAGTAGAGATGGGGCTTC
ACCATGTTNGGCCAGGGCTGATCTTAAACTCCTGACCTCATGTGGTCCACCCACCTTG

Table 1

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GCCTCCCAAAGTGCTGGGATTACAGGCGTGGAGCCACCACGCTCAGCCTACAAGCAATTT
TTTAAAACTGACACCTATTACTGATAAAAAATTCTCTGTTTAAAATCCTATTTACTATTT
TAAAGGATAAGTATTAGTTTTTTTAAATACCAATAATTTCTTGTTATTTGGATAAAAATT
TAAAGGGCATTTTTCATTTGGCCTTTTT

Sequence 4063

CCGCGGTGGCGGCCCGCCGGGCAGGTACCCAGAGTGCAGAGCCGCATTTCCAGCATGCAG
GGGCTGCTCAGCGTTTAGTCACATCAAGAAATAGAACAGAATTCAGCCATGGCCCCAAGA
AAGAGAGGTGGACGAGGTATTTTCATTCATCTTTTGCTGTTTCCCGAAATNAATGATCACC
CAGAAATCACGTATCGGCTGCGAAATGATAGCAACTTTGCGCTTCAGACCATGGAACCAG
CATTGCCCATGCCCCCTGTGGAGGAGCTGGATGTCATGTTTCAGTGAAGTGGTGGTGAGTC
CCAGTTTTCTATCCTGGGCATTGGTTGGGGGAGCCAGNAGAAGGAGTAAGAGGAGAGGGA
TGTTGAATGAGTTTGGTTTTGGTTTTGGACATTGGGACTTTTTCTTTTTNAGTGGAAT
GGCNCCCCA

Sequence 4064

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTGACTTTTTTTTCAGCCTTCCTATACAGCCCCAGGAATAAAAAATCAT
GACTAAAATGGGATAGCTCCCTAAAAAGGGACTAGGAAAGAAGTCCCAATTTGANGGCTG
AAAAAATCAAAAAAGAAAAGGAATAGGGCATCCTTTTTAGGAGCGGTCACTGTANAGCC
TCCAAAACCCATTCCATTAAGTTGGGGGAAAAAAACAAGTGTATGGTAAATCAGCAGCG
CTTCCAAAACAAAAGTGGAGGCTTTACATTTATTAGCAAAGAAACAATTAGAAAAAGGA
CATTGAGCCTTCATTTTCGCCTTGGAATTCTGTTTGTAATTCAAAA

Sequence 4065

CCGCGGTGGCGGCCCGCCGGCCAGGTACATAGNAATATGAACACATCACACACATGAGAG
ACGCAAGTGCCAAATGCCTTGCCCTGGNCTTNACGTGTCAAGCCCAACACAGTC

Sequence 4066

TTAGGGCGAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACTGATACTTTTTATTCTTTT
CAGGGACCGTTTATCTAAAAAATGTTAAGGCTTATGCTTTCAGATCTCAGTCCAATTTCT
AGAAATTAACAATGAGTCCTTTTATAGCACTTACCTTTCTCTTCCTGCCTTCCCCACCTC
CACCCCAAACCTTGCTTTGGGTGTTCTTTAATCTTTCAAGGGAGTGATAAATGTCACAAAC
TCTTAAATAAAGGGCTGAAATGGCAGCGTATGACTGTTTTGACTGTCCTTAAAGTAGTAT
TAGTCTTCTAGAATACTAATCTAATTCTTAGAAAACAGGAAAACAGGAGGAAGCCTCAAT
GGTTCNAAGGGGAAGGTTAATAATAATTTGGATTTCATTCCTGGCCTACCCAGG

Sequence 4067

CCGCGGTGGCGGCCCGCCGNTCAGGTACATCCCNNTNCATCAGTATCNTTTCTTNATGAG
GACAGTGACAGTAGCCCGAGTCACAAAAAAGGAGAGAGCAAACAGCAACGCAAAGCTCGG
CACAGACCACATGGCCCTCTTTTGCCTACTATTGAAGATTCTTCAGAGGAAGAAGAATTG
AGAGAGGAAGAAGAATTATTAAGGAGCAAGAAAAGCAGAGGGGAAATAGAACAGCAACAA
AGAAAGAGTTCTAGTAAAAAATCAAAGAAAGACAAAGATGAACTTCGAGCTCAGAGAAGA
AGGGAAAGGCCAAAGACNCCCACCTAGTAATCTCTCTCCATTGGAAGGATGGCATCTCC
CGACAGAAAGAGTTTACCGTCAGGGCTGGCAGAAAATGGGAGGGAGCCTC

Sequence 4068

GCTTACCGCGGTGGCGGCCCGCCGGGCAGGTACGATCTTGGCTCACTGCAACCTCTCCNT
CCCTNGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGCGTG
CCACTGCGTCCGGCTAATTTTTGTATTTTGTAGTANAGATGGGGTTTCACCATGTTGGCCA
GGCTGATCTCAAACCTCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGTGCTGG
GATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAAAAACTGACACCTA
TTACTGATAAAATTCTCTGTTTAAATCCTATTTACTATNTTGTAAGATAAGTAATTAA
GGTTTTTTTTTTTAAATACCAATAATTTCTGTTTATTGGATAAAAAATTTAAGGGCATTTN

Sequence 4069

ATTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTCATTCCTCTCCATTACTTAAATTAAATGCTGCCACCATTGAGT
ATGGCATTGTATAATCATATTCCTTCAGCGGTTAAAATAGAAAAAAATGCAGATAGAGA
TGTGTNTAATTGGCATGCATAGAAATACANAACCAGTTACATGACAAAAGTAAACAAAAC
TNTAAACCTTCNTNTTTTAAAAACAAGATTTTCCATTTAACAAGAATTACATTCATTAA
CTGGAGAGTNTNTCNTATAGANAAAACTTTTAGAGGTCAGATCCAAACATTTACCTAT

Sequence 4070

Table 1

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CCGCGGTGGCGGCCGCGGCCGAGGTACTTTCTTCCTCATACTGACTATAGTCATCCACC
TCCATTCGAGACTCCAAGAGAGAAAGAGGATCACTGCAGCACACCCCATTTTCATGAAGC
CCCTCTGTATAAGACCCCTATTTTCCTCATCTCGTTTTAGCTGGATTTTAAATTTTGTA
GAACTACTGCCTGATCCTGAGTTAAATCCATTATTAAGCTTTGCTACATAGAGATTGTTA
TCGTTGTCATGGTCTTTGCTTAACTTGATGCTTATTTTGGAGAGTTCATTCCATCATTC
TCTTGGTCATTTGTTTTGCTGCTGCTATCATGACCGCCCTACCGAAAGGAGGTCAATTTG
GGGAATCCCCAGGAGTTTATTTTCTTAGGG

Sequence 4071

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATATTTTATTT
TACAAATTTTAAATTAATAAGTTTATTTAAAGTTTATTTTAAATTTATAAAATAGT
TAATTTTAAATAGTCTCAGCAAAAAANAAGNGGGCANAAACCCTGCTCGTTCTACTTTA
TAAATAGTAGCTTATCAACCGGCAGCCAGTGAAACACTAAACCCAAAATTTGCCTCATTG
NGTCATGGAGATTATGCTGCAAGGGANAAACCTGCCAAGCCCTTTCCAAGAGGTGCTGTG
TGCCAGCCCAATCCCCAAACCCTGCCAAGCCACCGGGAGTGCTTTCTAGGGCTTGGTGAC
AGGCCCCAGTTGCCAGCTAGAATGCCCCCGTATGGCTCGGGGGGATG

Sequence 4072

GGGCTNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNATCTTGGCTCACTGCAACCTC
TCCCTTCCGGGTTCAGTGATTCTCGTGCTCAGCCTCTTGAGTAGCTGGGATTACAGGC
GCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTGTAGTAGAGATGGGGTTTCACCATGTT
GGCCAGGCTGATCTCAAACCTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGT
GCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAAAACTGAC
ACCTATTACTGATAAAATCTCTGTTTAAATCCTATTTACTAATTTTAAAGATAAAGTA
TTAGTTTTTTTTTTAAATAACCAANTAATTTCTGTTATTGGATAAAAATTTAAGGGCATT
TTCA

Sequence 4073

TATNGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACTTTTTTTTTTT
TTTTTTTTTTTGGCTTTTATCCTGTTTGTGTTCTCTGAGCTTCCTGAATCTGTGGTTTC
GTGTCACATATTAATTTANAAAAATCTCATTCAATTATTGCTTTGAATATTTCTTCTATTC
CTTCTCTCTTCTCCTCTCCTTCTGGGGNTCCACTATGCATACTTACATCTTTTATAGTTG
TCCCACTGTTCTTGGATATTCTGTTCCTTTTTTATTCANTCTTTTCCCTTTGCTTTTCAT
TTTTGGAAGTTTCTCTTGAAATATACTGAAGCTCCAGATTCTTTCCTCACCCACATCCAG
TCTGCTAATGAGGCTTCAACACCATGCTTCATTTTGGTTAGTTTTCTTGGACC

Sequence 4074

AGGTACTTCATTCCTTTTTGTGCTGAGTAATATGTCACGTTATAAGGATACACCACGTTT
TGTTTATGCATTCATCAGTTGATGAACATTTGGGTGTTTTCACTTNTTTGGCNTATTGT
GAACTAAATGCTTGCGTGTAAGTAATTCCTTTGNCATGGAGNTTNTTNGTNATAAGAA
TNGTNGTGGGTTTTTCAATTTTCCCTTCCNTGAAGGTTGNTATTACCCCTTAAGGGAAG
NGGAAGGNAAAACCTGGCCTTGGNGGGTCCGGTCAATTGNGGTTAAAAACCTTNCTTTA
ATTAATTTTNCAAAACCAATTNTTTTTTNGGAAGGGGGAAACCCCAACCCCNANCTAT
CCTTTTTTTTTTTCAAAAAAAGGNNGGGGCCNCCAACCCAACNNCCAATTTTTTNTTAA
CCCAAAAATTNCCCNTGGNCCTTTAAGNCCAAANCCGNTTTNATTTGGAANTTAAANTT
NCCCTTTAATTNTTNTCTTTNCTTGGCCAATTTTNNCCNTTTACCCCNANAACCACCCT
TTTGGNCNCCAATTGGNTNCCTTNGGTGCCTTTTTTTTTTTTNAATTTTTTTTTTAAGGNC
CCCAATTTCTTNTTTTTTG

Sequence 4075

CCGCGGTGGCGGCCGAGGTACATTTTGCTTCTTAGAAAGCTAAGTCCTGGGTTCGGTCTG
ATTTTAGGTTCCAGGAACCTCCTGAGAACACCCGATCGCAGAGGGTAATTTTCTGGAGTT
TGTTTTGCAGGGATAGCTGGGAGTATGGCCACCCTGCTCCACGATGCCGGTAATGAATCC
AGCAGAAGGTAATGTTTCATGGTCCCAGGGAGGGGCAGTAGGGGATGTNCAANGGGGCAC
AAAAAATGGTTGTGGGAGAGTGGGAGAGGACTGAAGGTGGGCAGAGCGGCTCCTAGTCTC
CAGTCAGAGCAGACAGGAGAATTGAATTTTTTACTACGTTATCAAAGGCCTCAAGAAAGG
GACGTGNAACATAAGAAGTTTTTGGTATTCCTG

Sequence 4076

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGTT
TTTTGTTTTTTGTTTTTTCATTTTTTGTGTGTGTTTATTTTTTTTATTTTTTTTATTTTT
ATTTTTGGCAGCCACAGNANTTTTAGCCATTTCAAATNCCTTGCTNCCCANAAATTNNAA
NATTCCTTTGGATTTGACCAANTCANGAATAGATGNGATAAAAGTGAAACAACAACANT

Table 1

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AAAGGGGGNNAANNNGGGAACAAACAGAAAGAGTTAAGCAAAACAAACGGGGTGCNCANTT
CATATGATTACTGACTGTTCTAATGCTAAGGANAAATTAAAANCANCTNGTGNCNTAATC
TTATATTTTAATCCATTNAAGGAAAAATTTTAA

Sequence 4077

CNNGGCAGGTACTTACTAAATATATGCTCTATTTTTTCTTTTGGAAAAAGCATGGTTTTT
TGCTTTTGTCTGTGGGGTTTTTTTTTTTTTTTGGTGACCGACCAACCATTGAACCTAAAT
TATATGTGTAACAATTTCTTAAAGTGTAACGTTAGGTTTGAAACACCTAACAACCTTTGCC
AAGTTAAATTTTCATACCAATTTTAGAATTGAATATGGGGAAATTTTAAGCTACCACTTA
TTTTTGGGAAAATGCCTTTTTGTCTTCTATTCCTGGTGGGCAGATTTTCTTCTGAAGTTG
AATTTAAACTGAAAGATTAGGACATCGGGCCAACCNTTAAAGAGGTAAGGTGGATGATT
TTTTGNTATGGTAAGTTTGAGC

Sequence 4078

CCGGGGCAGGTACTTCCCTCACCTGGACATAATTCTCAATATCTGAAAAATTCAATAATG
TTATCATAGCAAATTCAGAAACAACCTTCAGTATCTACTAATAAGGGAATGGTTAAATCAA
ACCACAAATAAGGAGGGGAGACTACTGTTGTTACAGAAATAGTCTTCAAGAAACAATAGCA
TTTCCTAGAAGTTATAAAATTTTACTGGTTCCAGACTGATCCTAATATCAGGTATGATT
ATTTCTTTGGAGTAAGAAAAAAATTTTTTAAGGCTGAAATTTTGCACAAAAAGTCTT
AGATTAAATATGGTATATTGATTTTGGGGACACAAGGGAAAAGCCTATAATTTAAAAATC
TTGGCTTCTTAT

Sequence 4079

CCGCGGTGGCGGCCGAGGTACCCCAAGATAGGATCAGGGCTATTTTAATGATCATGTGAT
TTATTAAAACTTGAGATTTCCAACCTACTCTTTCACACGTATGTGGAAGAAATGTATTCC
AAGAAGAGTTGCTATAATCAGTATTAATCTGTAAAATCACATTGATTTATCTTAGAAGGA
TAAAAAGAACAGAAACAAAACCTCTACCAGCTCATATAATTTTCTTTGCAAAAATTTTTT
GCTTCTTTACTATACTGAATTAGTTACATCAATTGTTGTATCAATGAAATAATTAGGTAT
TATTACCTGTAACCTATTTTGAAAATTAATAAAAGAACCAAGAAGAAATAGAGTAATATCCC
TAGGCTAAACTAAACAAAATCTCAGCAACCCAGAACTTTCGGGAACTGATGTTTCAGG
A

Sequence 4080

AGGTACCAGCTCTGGGCATCCCCAGGGTTTATGCTCACCGGTCAGTGCTGGTGTGACATG
ATGGCTGAGCACCGGCACTGTGTCCAGCGCATTGCTAGGCACTAGACACGTGCTCTTTCA
TTTATTCTCAAATTGCTTTGTGCTGTAAATGCTACCCAGAAAGGCTCATGTTCACTTACT
CAAGTCACTTCACCAGAAAGTGACAGAGCCAGAATTCAAACCCAGGTCTGCCAGATTCCA
GGTCCCTTGCTTCTTCTGTTGTTGCTCATTGCAAGGGAGTCTTCTTCAAGGTTATTCTCA
GGAGTTTGATTAAGATACAGGCTCACAGCTGGGCATGGTGTCTCATGCTGTGGTCTCAGC
ACTTTGGGAGGCCAAGGTTGGGTGGATCACTTGAGC

Sequence 4081

CCGNCGGGTACGCGGGGAGAAACAAGCAGCTGCTGCCTGGTGGTAACAGCAAAGGGTGG
AAGTCAATAGGGTCTCTGTGAGACTGTTTCACAGAAGGATGCGTGTTTACCCAAGGCTGC
GCATCAAAAAGAAATAGATAAAATAAATGAAAATTAGAAGGGTCTCCTGTTAAAGATGG
TCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACCTAAAGCCTTAGAATTGAT
GGACATGCAAACCTTCAAAGCAGAGCCTCCCGAGAAGCCATCTGCCTTCGAGCCTGCCAT
TGAAATGCAAAGTCTGTTCCAAATAAAGCCTTGGAATTGAAGAAATGAACAAACATTGAG
AGCAGATGAGATACTCCCATCAGAATCCAAACAAAAGGACTAT

Sequence 4082

GGTGGCGGCCGAGGTACTTTTAAATTTTTTTTTTTTTTTTGNATTTTGTAGTANACG
GGGTTTCACCGTGTTAGCCAGGGTGGTCTNAATCTCCTGACCTCGTGATCCGCCTGTCTC
ANCCTCCCAAAAAGTGCTGGGATTACAGGCATGGGCCCGCNACNCCTGGCCAAGTAGATG
CTTTTTATTGAGCTCTGTGAGGTAGGATCCCAGANCATCCAAAGTAANGANGGGGAAGGT
GAATGGGTAGGGTTTTTTGAAGAAAAA

Sequence 4083

AGGTACCCAAACCTAAGAGCTATTATCCCTAAATTTCAAATCTAAAAAAAACCTTAG
AACCTCAGATGATATAATTAACATAAAAGCCAGGTTTTTGTATAAATGAAAAGGGATAA
AAATTCATACAAAATCCATTAGTAACATTCATAAGCACCCGAAATAAATTATTTAGATGT
TTGCAAGTCAGCTGCAAGGTGTTCTTCTCCTCAAATATCCTCTAAGGATGAGCTTATAG
ACAGATTAACCTTAACAACGAAACCTAACATTCCACCAGTAAGAATCTTGTGTGTGTGA
AGCTGCTTTTTACTAAGTTGGAGGTAAGAGCTCAAAGTAGAGTTTTACTTAAGAAAAAT

Table 1

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GGGGCAAACATTGATTTTGTAGTTTCTACAGCTATAAAATGATG

Sequence 4084

AGGTACAGATTAAGCATATAAAAAATTAGAGACTAACTGGGATTTTAAAGATTATTC
AAATTAAGAGTTGCTTTGTATGCCTTCAGCAAATAGCTTCATTTTGCCAATACTGAATA
AAAGAGTTATTTCTACATGTGAATTAGTTTTCAGTCATAATCCCCTAAAAAACTAT
TTCTAGCCAGAGCCTTTCACAATAAAAAATACTAAGATTTTACAAAAATACTAAGTTTGTAG
AAAGAGCAACCTAGTTTAAACCTGGTGTGTATCCTGAAGTGACTTTTAATAACATTGAG
ATTCTTGCCCACTGCATAGTCTTCTCCTCAGCTGGGGATTTTGGATTTTTTTTTTTC
TATTTACTTATCTAAATGTTTAGCAATATCAAGATGTAGGCT

Sequence 4085

CCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCGGCCAACATGGCGGAACGCATTANACA
CAAGAAGCGGATCCAGGAAGTTGGTGAACCATCTAAAGAAGAGAAGGCTGTGGCCAAGTA
TCTTCGATTCAACTGTCCAACAAAGTCCACCAATATGATGGGTCACCGGGTTGATTATTT
TATTGCTTCAAAAGCAGTGGACTGTCTTTTGGATTCAAAGTGGGCAAAGGCCAAGAAAGG
AGAGGAAGCTTTATTTACAACCAGGGAGTCTGTGGTTGACTACTGCAACAGGCTTTTAAA
GAAAGCAGTTTTTTTACCGAGCCCTAAAAAGTAATGGAAAATGGAAAANTATGATAAAA
GACATTAANAGAAAAGAAAAAGGATAAAGGGAAAAAGCTTGAAAAGTGGGAANAAA

Sequence 4086

NTAGNCGTTTTGGANCTCCCCGCGGTGTTNGCCGAGGNACTCGCCCCCAGGCCAGATA
ATTTATTTAAAACTTTTTTTGTAGAGACNTNGGTCTCACTATGTTGCCAGGCTGGTCT
CAAACCTCCTGGCCTCAAACAATCCTCTACCTCAACCCCCCTAAGTGCTGGCATTACAGGC
ATCAGCTGCCATGCCTGGGCTACAAATCTTAATGTTTTCCCATGGCTTCTTTTTCTGGC
GTTCTTTTCTCAGGTAATGGAAGTGGGCAGAGAATGATCCTTTCCCTAGGCTCCAGTGTG
TAAGAATTAAAGAAAGAGGAAAGAAACACAATGGCTTGATGGTCGAGGACAGGTTTATTT
TTAAAGAAAACAAACCCAAGGAGTGGCTTCTGGCTGAGTTAGATCAGGAGGCATGCCTCT
CTTACAGACTAAGGAGTTTTTTTAAGGA

Sequence 4087

GGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTCCTATGAACAAAATTT
GAAGCATGTTTATTTCTCTGCCTGGTTCTCTAGAAATTTGGAAATTATCTGNCTGGAAGC
TCTGAGTTTATCTTGGGACCTCAAGAGGAGAGGATCACCTNCTTCACAGCNAATCAAAC
TCCAAATGGTGCTATNAACTGAACCACACATTGGACACGTCAGTCTTCCGAGGACCCTTA
GATCAACCCCAGGAGGAGCCCTAGCTTGCTGNNCCCCATTCNACGCCCTTTCCA

Sequence 4088

CCGCGGTGGCGGCCGCCCCGGGCAGGTACATGCAGAACTGCATGATCAGCTGTATGGTAGC
CTTGAAAACCAACAGGCCACAATCACAGTGAAAACCTCAGGTTGGCAGCCACTGGAGGAT
ACAAAATGAGTTTGGATCTCCTTCAATGCCCCATTCCCAGAGAACTGTCATTATTTGACC
TGCTGGTAGTTTCCCTAAAGGACNGTGCAAGGGATGTTTTTTTTTATTTGACTGGGACCAC
TTTGAAAGCTTTGNCCCTGGTAATGGAAACAAGCNCCCCCAATCTTTTCCCCAATG

Sequence 4089

GGGCGATTTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTTNCAATGNCTCACTCTTGTCACCCAAGTTGGAGTGAACCTGGTGCCATTAT
ATAAAGCTTACTGCAGCCTCANACTCCTACACTCAAGCAGTTCTCCACCTCGGCCTCCC
AAACAGCTGGTATTACAGGCATAAGCCACTGGGCCCCCAACCCTTACTAGCCATTTTTTTT
AAAATGCTGGAAAAAGCCNACATGTGGACTTAGGNGGCTACACCATTTGGGACAGCTCAG
ATACNAGAAACATTTCTATCATCTTCAAAGTTCTTANTTGGGACCAGAAATTGGCTTTTA
AAGGAATTATCCCTCAATTATAAAAAATGGATAAGGTATGGCCTAAAAGCCTCAAAAAAA
AATT

Sequence 4090

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACATTTCTCTGGCT
CCAGCCTTGGCTAAGTTGATGACCTGAGTCGATCTCCACATTCATCTACATGAACGTGGG
GGCGTTGGTTTTTGGCGGCCAAGGCTGTAAAATGTAGGGCTTGCTCANNTTGCTATTTAA
TCAACATGTGGACATTNTNAGCANANAAANCCCCCANANCAAATAGGAANTGAGAAANC
TACNCTGATTAAAATGATGAAAATGATT

Sequence 4091

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATTACATTATTATTGAA
TATAGTCACCCTATTGTGNTATCAAATAGTAGGTCTTATTAACCTCTCTATTTTATACCC
ATTAGCCATCCCCACCTTCCCACAACACCCCCTGCCGCTACCTTTCCCAGCCTCTGATAA

Table 1

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CCATCCTTATACTCTCTGTGTCCATGAGTTTGNTTTTGATTTTAGAATTCCACAAATTNA
GNTGGAGAAACATGGTGGAACAATTTTGGTCTTTTCNTGGTGCCCTGGGGTTTTATTTTC
CACCTTTAAACCAATAAATNGGATTCCCAATTAATTGNTTTCNATTCAAAATNGTTANC
TTNGACCAAATGGAACCTGG

Sequence 4092

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGAAAACCT
AGATACTGCAGTCAGATTTTGGAACTGCCGTATAGTCACTGTTTTAAAAACCCCGGAGG
GGCTGTATTAATTTGTATTGCCCCATGGCTGACAAAAGCCTTTTTTTTTTGGTTTTGATT
TTTTTTTTTTTGTAACTGTTGGGGGGGAAAAAGGCTTTTAAACCATTTTTGAAGAGGGT
GAAGTTTGGAGAACAAATTTAAAAACCATCAGTCATGTGAGCAGATTTTTTAGAAGGGAT
AGGAGACACACGCGCACACACACACACGAACTTGAAATGGCTTTGCTTTGGCTGTCG
TCTTCTGCCGTGTGCCAGATGAAGCTTGTGATNTGGGAAGCCCGGGGGCACCCCCGTTT
TTGT

Sequence 4093

TNGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTATNAN
ATTGGGTTCACCATGTTGGCCAGGCTAGNNTCAAACCTCCTGGCCTCAAGNGATCTGCCA
NCCTTGGCCTCCCAAAGTGCTGGAATTACAGGCATGAGCCANTTGCACCCGGCCTGCTTA
TTAATCAAGATTTTCAAAGTTAGATGTTTAAATTAAGGATAATATGTCTATACCACTCAT
CCAACAATTTTCACTGNGAAGACCACATTAGCCAGCTCCCAGAGGAGACACATTCTGGTG
AGCGGGGTGGCTTGGGTTACCATATTCGCTTCTACCATCCTCCAATCCCAGCCTTTCCC
TNTACCTGGGGGATTCACTTGAACCATTCATTTTGTATTCCCACATT

Sequence 4094

CACCGCGGNGGCGGCCGCCCGGGCAGGTACGCGGGGAGGCATTGAGGCAGCCAGCTTCNG
GGGCTTCTGCTGAGGGGGCANGCGGAGCTNGAGGAAACCGCANAATAAGNTNTTTCTCT
TTGAAAGATANAGATTAATAACAACCTACTTAAAAAAAANTATANGNCCAANTAGGGTTAA
CCTAAAGNATATTTGCCTTTAAGCGGCTGCAAAGATTTTATNNAAACCGTTAAATTTNT
TAAANAGACNTTTAAGAAATATTTTAAANAGCANCATAANANTTAATGNANAANGAAC
CNTTNNACTCAANANNTAAGTTTATNNCNATTNGNAANGNGGAAAAGGGGGAAAAAANG
GAANTAAANAAAAAGTGNGGTTTTCCNTAAAAAAA

Sequence 4095

GCGGCGGCGGCCGAGGTACTAGTCAGTATGCTGTAGTATTAATCAGTAGGTNAAGTTCAG
TGAAGTAAAGGAGAATTGAATNCTTGAAGTTCACATTTAGGCAAAAATTTGGCGTTTTAG
GAGGTGAGTATAAGACATGATCTTTATAGAAAACGCTNGATGATAAAAACAGCCGCTCTC
TGTTAGGTGCCTTTATGCTTGGACTCCATTGGCATCTTTTCTTAAGNAAACCTAANNCTC
ACGACTGGGGTGCCAATGNGCTCCATGTTCTGTTAATCCCCAGNCACNNTTGNGNAGGGC
TGANGNCTATTAGGGAATCANGTTTGAAGCCTCGGGGGAGGTTCAAAGAATCAAGCCCTG
GGGGCAAACCATTAGNCTAGGACCTCGTTCTCCTTACTTAANAGAAAACCAAATACACA
TACCACNAAANAACCAACANNANAANACCCCCCCCCAAAAAAAACCCAAACAAACCAA
CGCCTTGGGCA

Sequence 4096

AGGTACCCAGCCAGGCGCACGATGTCGTGTAAGCAGGGTATTCTTGTGCCAGCATTTCG
TTCTCTGTGAAAACACAGCGCCGTCAACATTTTGCACCTTCCAGGGCCCTTCGGAATTGG
AAGTGCCTGTAGCTAAGCTGTTTCCCTGGAGAGTCCAGCTGTTCTCCTGATCCGGCCCT
GCACACACACACCCAGCCACAAATTAAGGATGTCAAACCCAGGTGATCAGGATACTCT
CACGGACTGCCCTGCTCCCCCAGGGCTCTCCCTACAGTGTAATCCTAAAGCCAACTTCC
TTTCAGCAGTGGCTGAAGCAAACCTCTGCAGTCAGAGGTCATACCCAGCAGGCTTCACCAT
GCAGACTTGAATGTTTG

Sequence 4097

TTTTAGGGCAATTGGAGCTTCCCGCGGTGGCGGCCGAGGTACNCGGGTAATCAGGCTTTT
TAAATGATGTAATTCCCACTNTAATAGCATAGGGATTTTGAAGCAGCTGCTGGTGGCTT
GGGACATCAGTGGGGCCAANGGTTCTCTGTCCCTGGTTCAACTGTGATTTTGGCTTTCCC
C

Sequence 4098

NGGCCGCCCGGGCAGGTTTCATGGGACTACAGTNCACGCCCCACCNTTCCCAGCTCATTTT
TGTATTTTGTAGTAGNGACAGGGTTTACCATGTTGGCCAGGATGATCTTGATCTCTTGAC
CTCATGATCCGCCCGTCTTGGCCTCCCAAAGTGCTGGGATCACAGGCGCGAGCCACCACA
CCTGGCCCTCTATTTATTCTCTTTAAAGAGAGAGAAAACCTATTGAGAGGCCAAATTATT

Table 1

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TAATTAAATCTTTACCTTAGCACAAAGGGAAAAAATGGAATTTGCCTAATATAGGNTGAT
GAAGCATACACAATGAATTANAAACAATCACATTTTAGTAANAAGGCAAAAATTTGAGAC
CTTATAAAGCTATNATGGGNAGCTTATTTTTTGGGGTGGGGGAAGGAAAATNGA

Sequence 4099

CCGGGCAGGTACGCGGGGGCGCGCGGCCCATTTNCCTTTTCCGGTCGGCGTGGTCTTGCG
AGTGGAGTGTCCNCTGTGCCCCGGGCTGCACCATNAGCGTCCCGGCCTTCATCCGACATN
ATTGAANAATGATNATNGCCTGCTTGAGCTTCCNNTGCTTATCTGGAA

Sequence 4100

NTGGCGGCCCGCCGGGCAGGTNCGCGGGGAGGACGGTCTGACTTCGGCTTTGCCCAGGTGA
GAAAGGCCACCTGTGTCTTGGTTGAGGGTCTCCAGGGTCTTTGGGGCCCGAGGAATTT
CAGACCTGAACAATCAGGTGGACAACCTTCTTGAGCTTTGGGTATTCTGAAATTACTCAT
CTTGACTCTACTGTGCCTGGATGTAGCTGTGTGTTTTGTGTGTATCCTGTTTCATGGTTT
GTAGAATTTCTTGAGTTTGCCGATGGTGGCAGAGTCTACATAGAACTATGCTTCNTGGTG
TTCTGGGGAAAACCTTTCGACTTGTTGGCTATCTATCCAATATGGCTGTATAGCTCATTG
GGCTTTTGAAAANCCTTGGTGGTGNTTGTCAATGTGTTCTGGAACCATCAAATGGGAGCC
TACAATTTCAAAAATTCAGA

Sequence 4101

GGNAAAACCCGGCGAANNNTTTTTTCGGGCAAAAAAACCCGGGNGGGCCGCCANCAAGG
GGGTTTATTCNAAAGAAGCCCCTTTNTANCACNCNCNCTGGGTTTTCCGACCNNCGGA
GGGGAAAGGGACNATNNAAGAAAAANNGGGGAATATGGAATGGAGGTAACCCCTTNAAAA
AGGGAATGGGGGCNAAGGGAAAAAACNAGNAANCCNNGGANGGGGGGGGAAAAATNCA
AANNTNNGAAACCGGGGGGAATCNAACCAAGAATCNCNGAAAAAANTGGAAAGGNCCAC
AAAAAAGGGNGGAAGGCCAANNGAACCCCAAATGGGAAGGAANGGGGAAAAAAACCAA
GGAACCGAAGGAAAAAAATCCNNGGAATAGGGCCNTGNNCACNAAAAGGAACAAGTGG
CNAACCAAAAACCAAAAAAATGGGGGAAANTAACCNTGGGGGGAAATGGNACCATGGG
GAAGGGGGCAANGCCCCCAAAGGCCNGGGGGGGGAAGGGGGAAGGAAATAAACCCCNACC
GGGGGGGGCCAANNAANGGGGGGNCAAGGGGAAATTATCCTTGGGGGGCCCCCCTNGG
CNCNGGGCCCCNNAAAAAAACNNGGGGGGGCCGGNTNGACAANTAAAACCCCAAAAANA
NACAAANTTGAGCAAATAAANTGATGCCNATAAAACCCCCCTGCAAAAAAACCAAAAA
ANNCCCNGGGANANGNCAAAAAAAATCCCCNNGGAANNCCCTNNTTAACNNGGGGNGA
NCCCCCNTNNCCAGGGGGG

Sequence 4102

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACTATGGAATTCCTTTC
TTTTTTTTTTTAGAGGGGGTGTCACTATGTTGCCTAGGCTAGTCTTGAACCTCCTGGGCT
CAAGTAATCCTCCCACCTCAGCCTCCCAAGTGCTAGAATTACAGGTGTGAGCCACCACAC
CTGGCCTATGGCATTCTTTAGGGTAAGCATTTGCAGAAAATGNCATTTCTCTGAATGAAA
TCCTATATGGAAATCCTATCTNCCCATTCTCCACAAGGCCTCAGTCAAGCTTTACATAGC
AAGAATTTAGCCGTAATCTGGTCCCTACATTATTTCCACAGGGAGCTCTGCTCTGGTCA
TGCTAAGCTTCATTATAAGGGGCTAATACAATGCCTTGCAATTAATGTCCNGCAANTTAAT
TATGNTTTNGAATTCNAAANATT

Sequence 4103

AGGTACATGATAGGGAGGAGTGAGGCAGGTGGGCACTGGAGGGCTGTTTTCCTNTGGCACA
GTTGAACTAGAGGGTCACTTTCCACTCATAATTGGTTTCCTAGGTCTAAGTCACCACACC
TGGGGCTTGAAGCAAGTCTATGCCTGTGCACCAAGCTGTTGTGCCNTTGGACCTGGANT
AGATGTCAATGGTCTTCANTATCTACCAGTTGTTGGAAAGTGGGTNAGGNACCTCCCAA
NCNTGTAAAGGAAGAATTCTTTTCTTNTCTCCCCACNCTTCCCANACTTCTTTTTTNCCC
CTTTAACAANAANTTGAACNCAAGGGCGGTGTCCAAATGNTTTCNNAGTAAGGGACAAG
AAAGTGNCAANCTCNTTCCNTTGGAGTTGGCCAAAACNTTTCCTCAACCCCACTAAGTTT
TCCTTTT

Sequence 4104

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAAGGTACAATCTTGGCTCA
CTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCGGCCTCCCGAGTAGCTGG
GATTACAGGTGCCCCGCCACCACAACCAGCTAATTTTTTGTGTTTTTAGTGGAGATGGGGT
TTCCTATGTTGGCCAGGCTGTTCTCAAACCTCTGACCTTAGACGATCCACCCACCTCGG
CCTCCCAAAGTGCTGGAGTTACAGGAGTGAGCCACCGTGCCAGCCCCATATACTTTAAA
TTATCTTTAGATTACTTATAATATCTAATAAATGTAATGGTATGTTAACAGTTTGTTA
TACTATATTGTTTAGGGAATCATGACAATAAAAAAGTCTGTATGTGCTCAGTTTCAAGAT

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GCTTAAAAAATATATATTTTCAA

Sequence 4105

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGGTGTAAAGGGA
TTTATATGGGGACGTANGCCGATTTCCGGGTGTTGTAGGTTTCTCTTTTTCAGGCTTATA
CTCATGAATCTTGTCTGAANCTTTTGGAGGGCCAGACCTGNCAAGTCCTGNAGAAAAATN
ANTAAGATGGGCAAGGTTTGTGGGTTTTTT

Sequence 4106

CCGGGCAGGTACCCCTNCAAGCCGGNCAACCCGGGCNAGGACGCACCAGCGGAGGACATG
GCCAGATACCTACTCANTCGCTTGNTNACACTACATCANCTNATTACCAGGCAGAAGAT
AATGGAAAANCNATNTATCCCATAGTACACTGNTTTCAGAACCTNTTGATGAAGAGAAA
GCTACANTAAAATGTNTNCCAGAAACATCNGCTATGAAGACNCTGCAATGGTGGATGATG
GGGAAAATTG

Sequence 4107

NCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCACTAT
GCCTGGCTAATATTTTTATTTTTTATTTTTGTAGAGACAGGGTCTTGTTATGTTGCCCA
GGCTGTTCTCAAACCTCCTATCCTCAAGCCATCCTCCCATCTCAGCCACTCAACTTGCTGG
AATTACCAGCGGAAGCCACTGTGCCCAGCCCAGACTCCCTTTTACCTAGTATATCATGTC
TAATTTCTAACAAAAAATTAAAAAACATTGTAAGAGGAAAAAAGAAACCCTAAAACAA
ACAAGCAAACAAAAAACCCAAAACAACAAAAAGTTTCAAGAAACAGAGCTAGCTGACAGA
ACTATATTCAGATATGGCAGGTATATTAGAATTATCAGATTGGTAATTTTAAACAACCTAT
GACTAATATGGTAAGAGTGATAATGGAAAAANTAGAC

Sequence 4108

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTCCGGGGACGTTG
TCTGCAGGCACTCAGAATGGTCCAGCGTTTGACATACCGACGTAGGCTTTCCTACAATAC
AGCCTCTAACAAAACCTAGGCTGTCCCGAACCCCTGGTAATAGAATTGGTTTACCCTTTAT
ACCAAAGAAGGTTTGGGAAAGCACCAAAATCTGCATGTGGTGTGTGCCCAGGCAGACTTC
GAGGGGTTCGTGCTGTAAGACCTAAAGTTCTTATGAGATTGTCCAAAACAAAGAAACATG
TCAGCAGGGCCTATGGTGGTTCCATGTGTGGCTAAATGTTGTTTCGTGACCAGGGATTCA
AAGCCGTGCCTTTTCCTTAT

Sequence 4109

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCTGTGAAAA
GTTTCAGGGGCCATATGGATTGGTGTCCCCACAATGCTGCCTGACATCATGGCCTCTGGCT
TGCAGAATCCTAAGTCAGTGATCTTGGCACGGTTCTGCTTATCCAGCAGCACATTTTTTA
AGTTTGATATCACGATGGACAAGTCCCTGGCTGTGCAGGAAGCGGATTCCCTCCACCACA
TCTAGTGCTATCTGCAAACGTGTCTCCAGGGTCAGCCCAGCCTTCAGCCCTGTGTAGAGA
TCCCGGTGTAGCCGCTCCATTAATGAGGAGCACAGNCAATTGCCTGGGAGCCCACCACCA
TAAGTTTGTAGTTCAAATGGACCTGGAACCATGGGGAGGATCCCACCCAATCGGC

Sequence 4110

CCGCGGTGGCGGCCGAGGTACAACCCCTTTACTTGCTACGACTACAGCTACAGGGAGAAG
GAACTAGAAGTGCAAAAAAGTCCACTCTTCCCTGTCTTTATCCCAGGAGAGAGTCAGGA
ACAATGAGCTCCTACATAAAGATCAAAATGGTGTCTCTCATTTTCCTGCTTTCAAGTGTC
CTCTCCTATCAAAGACTCAAGCAACTTTTGCTGCAGCAACTGGACTATGGGCTGCACTAA
CCACCGTATCAAATCCAAGCAGAGCAGATCCTGTGACCTGGAGAAAGGAGCCGGGCTGTC
CTTCCCTGCTGTAAACCTTAGAAGNAAAAGCCCCGCGGTACCTGGCCCCGGGGCGGCCGCC
CATCTTTGGGGGTCATTCGGATG

Sequence 4111

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTGGAGAACGGACACGCTGC
TTTTTTATATAGATTAAAAGAAATCTCAATCTTCAAAGTTTCTATTTACTGTAACAGTAG
ATGGTTTCAAAGAAGCACTTGGCCGGGCACGGTGGCTCACACCTGTAATCCCAGCACTCT
TGGGAGGCTGAGGCAGGCGGATCATGAAGTTAGGAGTTAGAGACCAGCCTGGCCAAACATG
GTGAAACCCTCGCCTCTACTAAAAATACAAAAATTAGCCAAGTGTGGTGGTTGCATGCCT
GTAATCCCACCTACTCGGGAGGCTGAGGCAGGGAGNAATTTGCTTGAATNCCAGGTAGGN
CGGNAGGTTTTTGGCAGTGGAGCCCCGAGAATCATGCCACTT

Sequence 4112

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAATATTAGATA
TTAAAAATGGATTCAAGAGAAGTTACTAAGAAATGCTGACATACTGTATATACAAATTTT
TAGTTCAATATATGCCATTATATAAAGCACCAGAGTAATGCCTTTATAAATCAAAGCCA

Table 1

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TTTTTTATGACTCTGTTTCTAATCTTTGTAACCCTTTTACATTTGTTCCAATATACACAC
ATCATAAATGTTACTTGCTCAACACTTCACCGATTTGGTCTCAACTTAAAAATATATATG
GTAGGGCCAAAAATTAATGTCAAAAAGGGAACCTGNTTCTAACCAGGTACCAAAGGAG
GAAAAATTAGGTAAAATATTTTTGGGAATTAAAACTGGTNCA

Sequence 4113

CGCGGTAGGCTGGCCGAGGTACCAGGCACCACGAAAGGATCACTGAACGTCGAGAGGA
CATGAGAAAAGGGAAGATCAGCACCAACAGAAGCANTCCAGAGACCAAGTAGTNACCATT
ACCACTGACCNGTGATNACTCGGAAAAGGAAAAAG

Sequence 4114

AGGTACCTGAACAAATCCCATCAAGGACAGATTCTCAGTCTTGAAGAGGCAGCACAGTAA
AGGGGAAAGATCATGAGTNTTGGGGCCAGGTTCCTTGGATATTGTGGGGNCCCCACACT
TCCTGTGATGATGTTGGATAACTCTTTTGANA

Sequence 4115

CGGTGGCGGCCGAGGTACTGTTTAAAAAGAATAATCATAATTTTATATTATNCNNTTGAA
ACATGTATTCAATACTGTTTACTGAATATCTCAAGTATACTTATTTACTTAGAAACAAAG
GAATCAACGGATATCTGTTATATAACGTTTAAATTACTAAAAATACTTTATNTANCATCN
NCTCCATAAATNGCTAGTTGTAAATGCTGACGAAAGTAAATTGTCAATCCCTACATTTG
CTA

Sequence 4116

ACGCGGTGGCGGCCGCCGGGCAGGTACCTCATCAATATGTGCATTTATTNTTTGCCAAT
TAAATAATATAAACTCTTTAAAAATTAAAAACCATATATTTCCCTANGTATTTCTGGG
ATGATTTTTTTTTCTCAATGACTTTTGANCAATGCTTTNGCTTTGTTTCTCAA

Sequence 4117

GCCGAGGTACTATGGTTAAANTATAGTAAGTTAGGGACGAAATTTTATTNCAAGTGATAA
GNCAACTTTANGATGGCATGNCAAGAAAAGACTTCACTAAGATNGCGACTTTAGAATTAA
ACACTGNAATAAGCANGGAANGCANCCATGCNNATATTGGGCCNAGGGAGGACATTCAAG
CATGAGGCCCAATGAGAGCCAANACCGCANGACCTTATTGTGCTATANCAAGGGGAGAAT
ACAATTGGA

Sequence 4118

CCGGGCAGGTACGCGGGGACGTCTTCCGTTTTCTTTTNACATCAATGCAGAGTCCCTCTG
TGAATTTACAACACCCAACACCCATGAGTTTAGTNCTTAAGAAGGAAAATTGAGCAAGTA
TTTAATTGGTTGGACATTGCATAAAAGAGGTCCATATCCANGCTAACTCTAGAAATTTTA
TTCTCAAACCTANTTGGCCTCTTTTTNTTCTGTCAGAGGACCATTTCTTAGTGGCACTGGG
GAAATC

Sequence 4119

CTATAGGGCGAATTGTTAGNTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATTTGTTGG
GGCGGTGACATTAAACATNTAACCCTTAGAGTGGACATGCANTTAGAGAAAANTTANTGA
NCTGGAACCAAGCTGGGAATTCCAACATGTANAANTTAAACACATTGAGGAGGAGCCANC
AAAGGAAACACGAANCAGAGCTTCCAGCATGGTGGGGGGCATTG

Sequence 4120

CTATACGGCGAATTGGTTCTCCCCGCGGTGGCGGCCGCCGGGCAGGACTTAAATTTTAA
AAATTTAGATTTTCAAGATTANTTGTCTTGCAAAAGGGGCAGACTAGGTGCCTCNTGACTAT
AATCCCAGCAATTTGGAAGGCTGAGGCGGGAGGATTGTTTGAGCCCAGGAGTTCGAGACC
AGCCTGGGCNACATANTGAGACTTNATCTNCCCCNAAATTANCCACCTGCCGGCTATGCT
AGTCTATAGTCTCAGCTNCTCATGAGGCTGAAGTGGGAGGACCACTTATGCCAGGAAAC
CAAGGCTGCAGTGAGCCATGATCATAACCTGCACTGCACTTCANCCTGGGGGGACAGGA
ACAAGGACAGACCCTGTCGNCCCACACCTNCCCTATACCCCCGGGAAAAAAAAAAAGTGC
AAAAAAAAAAAAAAC

Sequence 4121

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTT
TTTTTTTCTGGACACAGGGTCTTGCTGTTGCCAGGCTGGAGTGCAGGGGCATGACCATA
GCTNACTGCAGCCTTGACTTCCTTAACTCAAGCAATCCTTTTGCCTCAGCCTCCTGTAGC
ACTGTAGGCACACACAACNTATGCCTGGGCTAATTTTAAACATTTTNTTTTACNTTNTT
GACCCTTATNTTNTATACCCGGNTAATTTTTTGTAGAGACAGGGTCTTGCTATGTTGGTC
CAAGCTGGTCTTGAATTCCTTCGCTGCAAGCAATCCTTCCCCCTCAGCTTCCTGAGGGT
TAAGGATTACNCGCNTTGAGCCACTGNACCTGGCCTCCAACAGGTAAATTTTAGAACAT
TTTTTCCCTTNTACACCTAAAATTTACCCTCCCTAATA

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Sequence 4122

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCATGGAGGGCACCAC
CAAGAACTTCCTCTTGAATTTCTCCCTGTAGCCGCCACACCAGCCCTGGTCTTGGAGGC
TGCTGAACCACGATTATGCTGCCATCAGTGAAGGAAGCTGAAATTGTGAAAGTGAAACAC
CATGGCTGGTCATGTGCCAGATGATGTTGTGTTTCTGCAAAGTATCTCCAATCCTGGGTT
GGATCCAGTAGGTTGCACTTGGGCACCCAAACCGGAAACAGGGATTCTTGTTCTTAAAC
ACAAGACACTCCAATGAGAAAGCTGCTCTCAGATGAAGTTGCAGATCANGCCAGG

Sequence 4123

AGGTACTCAGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGG
TGTATCTCTTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGAC
TGTCAGGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGNGTGTTCTC
TGCCCCCTCTGCTCCTNCATCTTAGCTTCTGGAGGAGTTAAAGGCACCAAAGGGCACCCAA
GTCAAGGGTTTGGCAGGNTTTTGCTTGCCCTTGCCCCAAAGCCTTCAACAAAACTTAGC
TTGGGTCCCCTTGCTT

Sequence 4124

CGAATTGTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGATGCGTGAAAGG
TGCTGTGACCGCCCTCCGGGTGTGGCTTGGTGGCCTTCGGTGTTTCGGGGTTTGGCAGT
TCACTCACCAAGGTGATCTGATGGAGTGCACCTTCGCACGATTCCAAAGAAGGGAGAAGAC
AGAGGAGAATGCCACATGAAGACAGAAACAGAGATTGAAGTTATGTTGGCCATAATTCAA
GGATTGCTGGCAACACCAGAAGCCAAGAGAAAGATGAGGAAGAATTCTCCCCTAGACCTT
TCAGAAGGAGCGTGGCCCAACCAACACCCTGACTTCAGACTTCTGGCCTCCAGAAGTGTG
A

Sequence 4125

TAGGGCGTNTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTGCATGTATTTATTTCTCCTTGCATATTTATTGNTTTTCTCTCTC
TAGTTTTCTTACTAATACCTACTNTAGTAAACCTGGCCTNCAATAATCCTGCCGTCGT
GGGTCCAGGCTATGCAATTCTTCCATCATTTCTGGCTGGCANAGCGTNTCCCGAGACTAA
AGGTGCTCTTGGGGATCCCAAAGGACCTACATAATTTTAAATCAGTTTATGCTTCACTT
TCACTTGAGAAAAGTAGGGTNTACAAGAGGGGNCCTCAATGCTTGCCATTTGGGGGGAAA
AGTNAATGGGGAAACCTTTTTTTNATTATTTTNNATTTGGNCCCCNNCCTTAGGAAAAAA
ANAAAAGGTTTNTTNTTAAAAAAGNCCCCCAAGAAGGTTTTTTGGNCNTGGGGTTTTCAA
TTTTTAAAAAAAANCTTCCCTTTAAGCCAACCTTTNCCAAAAAAAATT

Sequence 4126

AGGTACGCGGGATGTCTCTTGTGCTGCTTTTTCAGAAGACCTGGTGGGGCAAGTCCGTG
GGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAACCTCTATCATCGACGTCTACCACAAG
TACGCGGGAGATCCCAGAGGCTGAACAGCTCGACCTTCTCTGCACAGCAGGTCCAGCATC
CTTTGAAGCATGAGTTCTTACCAGCAGAAGCAGACCTTTACCCACACCTCAGCTTCAA
CAGCAGCAGGTGAAACAACCCAGCCAGCCTCCACCTCAGGAAATATTTGTTCCCAACAAC
AAGGAGCCATGCCACTCAAAGGTTCCACAACCTGGAAACACAAAGATTCCAGAGCCAGGG
CTGTACCTGCCCCGGCGGCCGNTCTAAGAACTAGTGGGATCCCCC

Sequence 4127

TGGAGCTCCACCGNGGNGGCGGCCGCCCGGGCAGGTACAACCAAGTAGTTAGAGTAGTTC
ATTTATTATGGTNGGAAATAACAAGAGAGAAACAGATTTTGAGTGGGAAGGAAAATAANT
ATTCTTGTTTAGTCTTGTTAGTTTAAGATGCATATTAAACATCCAAATAAAGACATCAA
NAAACANTTGATGTNTAGGTCTGAAGATCTATGGTCAAGACTAACTGTANAGATTTTNA
TCCCGAATAAAATCATCTANACTATTGCAGATATTAAGGAAATAAAGGGTTGAAGATCA
ATCCCTGGGAATCTCCACATATAAGAGGTGANGGGGAGGACTCTTAAATTCCCAAGAGAG
GCNNAAGAAACATTCTTGACTGGCT

Sequence 4128

CCGGGCAGGTACTTGCAGGTGGTTTGGCCTGGAAAATCTANATGAGTGGTTTTTAAATNT
ACTTGCTTATTAGACTCANNAAGGAAATTTAAAAACAATACTGATTACTGAGACCANCT
TTTCTAGATTNTTCATTATTANGAGTNANGAAAGGCCAATGAATGTGTATTGATAAAAA
GGTTCCTGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGC
AGGTGGATCACCTGAGGTCANGAGTTCAAGACCAGCCTGGCCAACATGGGGA

Sequence 4129

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTNTTTTTTT
TTTTTTTTTTTTTATTATTANAGACAGGTTCTTGTTNCTGTNGCCTGGGCTAGAGAGCAN

Table 1

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CGGTGCAATCCTAATTCACCTGGGGCCTCAAATTCCTGGGCTCAAGTGATCCTCCTGCCCC
ACCCTTGANGTTGATAGGACTACAGGCACACACCACCATAACCTGGATAATTAATTTTATT
CTTATTTTCNAANAAACGGAGGTCCANCCAAGTTCCCCAGGCTGGNCTCGAACTCTTGGCC
TTAAGNGATCCTCCATGCCTGGGCTGGAAAACATAACCTTATGGGAAAGATTNCTAAAAA
AATGGTTTGAANCAACAAGTACTNAANGCTATNAATNATGAAAAGCT

Sequence 4130

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT
TTTAGTANAGATGNGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAG
TGATCTGCCAACCATCCATAATATNTAAATAANGCATATTGACTTCTTCTTAACTNANG
GGGTAAATNTAATATTTTANTTTTAATAGTNCAGGTTTCATGNATCTTCATATNTTATGCT
CAAGNTAATAATTCTTATTTGCTNTACATTTATGA

Sequence 4131

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGTGGCTCACGCCTATAATCCC
AGCAATTTGGGAGGCCAAGGTAGGCAGATCACTTGAGGTCAGGAGTTCCAGACCAGCCTG
GTCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAATTAGCCGTGCGTGGTGCCA
CATGCCTATAATNCCANCTACTTNNGAGGCTTGAGGCAGNGAGAATCACTTGAACCTGGG
AGGCAGAGGCTGCAGTGAACCGAGATCGCACCCTGCGCTCCAGCCTGAGTGACAGANAG
AACATNTNACACACACACACAAAAAATCCATTTCTTTCTTCTGTAAATATCACATATA
TGCAAATCCACCCACCCATATTTCTGTATATGTTTCNATTACCCCCCTNAAATATTTAAAT
GGTAAAAAGAAACAC

Sequence 4132

CGGCCGAGGTACATCACANTTCTCAGCNTCAGNTCANTNACTGNGGNTTGNGCAANAGAA
CAATCANAAATGCACATGCCTATGCTTTATCCTAGATGTGTTACTTTAGAAATTTTGGAGGT
GGTAGCTGGATAAGNGCATCTGTGGAAAAGCTTCTCANTGTANTNTTNACNCACTCCTTT
NATNGAATAGGCATTGACTNTACCATAAACCCTAGAAAATACGTCATTGGCAATGCTACT
GNTTTAAAGGAGAGAAAGGCATCTTTTGTNNNTTGACCCAATAATGGCATTGCCTATAA
CAGGTTGAAAGGGA

Sequence 4133

GAATTGGNNCTCCCCGCGGTGGCGGCCGAGGTACCAGGCACCACACGAAAGGATCACGAA
CGTCGAGAGGACATGAGAAAAGGGAAGATCAGCACCANCAGAAGCAATCCAGAGACCAAG
AGAACCATTACACTGACCGTGATTACCGGAAAGAAAGGGATTCTCATAGGCACANTAGAG
GGCCNNNTCATAGAGATTCCCATTGGAAGAGGCATGAACAGGAANATAAACCAAGNNCNA
GGGACCAAANAGAAANAAGTGACAGAGTATGGAAAAGGGAGAAAGATAGGGAGAAATATT
CCCAAAGAGAACAAAGAANGAGATNTACNNCANAATGATCAGAACCGACCCAGTGA

Sequence 4134

CTTTTATAGGGCGAATTGGAGCTNCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAAGGCC
GCAGACAAGTTGNCAGCAACATNNGATNACTCAGGGAATATCATTCCCATAAATCTTAAG
GCAATCTACTTATCAGACGAATGAGTAACATAACAATCAAATGACTGGATGATGACTGGG
GGGACATCACCATAAAGACTATGATGTGCATTCAATATTTACACGAAGAACTAGGATNAA
TGAAAGATGAGAGAGAGAANGAGAGAGAGCAAACAGTATATAATGGCTCTGTGCTCCAAC
AATGTGGGAACAACCTTATAAAGAATGTGTAAGGGACAGGAAGACATATGCAAAAATGT
CAGGTGGTAACAGTGTTGGGTGGGTGTTATTCTAAGAATGCTTTTGGCGTGTGAATAGTA
AATTG

Sequence 4135

NCTCCCCGCGGTGGCGGCCGAGGTACGTATGAGAAGCGGNTTTCATTCCCTTGTNTTCTA
CAGAGCAGTTTATTAGAGTGAATGCATTTTAAGGCCTTGCATTTGATATGTCATCCAGTT
CATAATCAAGTTGCCTTTTTCTGGCTAAACATAATGATTATGTATTTTCTCATTTGGG
TCCCTACAAGGCTGCTGGGCCCTTTGTCCCTCCACTTGTGGGAATCAGATCTAGAGCAGG
CTGAGCCTGCAGACACAGCAGTGGCCAAAAGGTCACTCTAAGNGTTTTGTCTTGACTCCT
TACTTGAAGTCCACCCAGCTAGCACACATCTTGGTTTATACTGAAGCCCCCTGCCTAGAA
ATACTCATTTTCAGGGAACCAAGTAAGCATCTGTGACCACACAGGCTTTTT

Sequence 4136

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAACAATGACAT
CACCTAACAGGGCATTTCTCAGAATGCATCCCATCATTAAGCAATGCACGACGGTATTAT
ACGCTGTAAATAACTGTATGTGCTATACTTCTATGACTGGCAGCACAGGTGTGTTTACAT
TAGTATCACTACAAACATGAATCATATGTTGCGCTATGATGTCATAAGGTAGCAAGTTTT
TCAGCTCAATTATATTCTTATGGGACCACTGTCGTAGATGTAGTTCATCACTGACCAAAA

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TGTCGTTATGTGGTGAATGACTGCGGTAAAATTCAGGGCCCACCGATGTTTTAGTGCAAT
TAGACAATTACAAGAGATAAAGCTATATCTTTTATTCCTTTCCTCATTATGGATAAA
Sequence 4137

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGANACAGGTCTCACTGNGTT
GCCAGTCTGGAGTGTAGTGGCTATTCACAGACACGATCATGATGCACTACAGCCTCAA
CTCTCAAACCTCCTGGGTTCAGNGATCCCTCCACCTNAGCCTTCCCTAGTAGCTGGGACT
ACAGGAACAAGCCACTGCACCCAGCTAATCCCATTCATTTTCCAATTAATCACTTACTG
CTTTGAAGNGTCATCTCTGATACTGCTATTCTACCTTTTACATTNCTATTTTCCCAACTN
TNTTAGTAAGCTTACCCTTAAGGATAAGTAAGGCCT

Sequence 4138

AGGTACTCAAAGTTCAAATGGAGCCCAGCAAGCCAGATCTCCTTTACTTCTAGGTTCCCT
CAACAGTTTCTCCTCTGCTTTAGAGACTGCCTTGAAAATATTCTTGTC

Sequence 4139

TGGCCGAGGTACTTAATGTTTGTCTACATAGTCACTTTGCTTCTTCGTAAATAAATACT
ATNNTNAAAATAAGAGACAATANAACCTGACCGGCCCTATTGTGTCT

Sequence 4140

ACGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNATCATTNACA
GCTACCTGTTAAATATCTTTTATGTAAGTTGTTTTGATTTTAAACAAATATNTTCTTT
TATTTACAGGAAAACTGTTTTTCTCAAAANGTTTAACCCCANANCCANGGAAGCCAAN
ATGCANTTAACCCAAGATCTTGNTTCTCCTNTNGCTCNCCTGNACCACNNTTATAGGACC
CATAAAAATGCNTTATCAGGGCCNCCANAAAAATTATCCATTGGNCTNGNACCNCAGACC
CCAGCTTTCTCCTGTTNTTATGGCCACGNGAAATTNTTATCCATTAACNATATTCCTCA
CTGNAANCAAATTTACCTTTAGNNCANCCNTGCNNAAAAAAAAAAAA

Sequence 4141

AGGTACTGTGCGCTGAAGTGATTAATTTACATATTCATTCTTGCTCTGTGATATTTAGGT
GTTTGTTTTTGGTTAGTGCATTTATTCTGTAAATTTAAATACATTTGTGTTTTTTAT
CCTGTTTTAAGTATATATACCGTGGGAATGTATATATAGGGATGTATACACAGACACACT
CAGACACATATTTTAATTTAGATTTCTAGAAGGGAAATTTAATTAAAAATAGGTGAACA
TTTTTAAATGACCTAATACATATTTAGTCCACATTGAANACTTTTGGCATTTTGNCATTG
CCATTAAAAATTTGATGGCNTTAAATTTGATGCCATTTAA

Sequence 4142

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTNTTTTTTTTTT
TTTTTTTTTTGTTCAAGGAATTACAAAGCTACTTTTAATACTTTGGGGNGAGCCCCACANG
AATAAAAAACNCTGGNAAGGGGNAACCCCTCACCCCGGGAGTGGCCCAAGGGGGAAAA
GAGGCTACCTGAGGGGAAGGAAGCNCAAAGGGACCCGCTGCANACTCANGGCAAAGGGA
ATGCCATCGGTGCTGGG

Sequence 4143

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTAGTATACTATTTGTATACTATTGCCATCTGCTGATGTCGATAT
AGAATAACAAATATGTAATCCAAATGGGAAGATTTACCTCACAGGGTTAAGAGCAGCAC
ACTCATAACTTGGAATAAGTTGAGATTTTATTTTCAAAGTAATTATTATAAAAAAATC
CTTAGTGGATGAAGTTTAAAAAACCTNTACAATGTTTGCAAGAATTTGTGTGCTCCATC
CATCCTACATAACATAGAAGTTGGATTACTCATCTTGATTCAATGTACCATTGGTGGCCA
ATTGATTTGATGGTAAGGGAGGGGATCCGTTGACCTCGTCTGTTATGTAAAGGATGCGTA
GGGATGGGGAGGGCNATGAGGACTAGGGATGATGGCGG

Sequence 4144

GCTGGCCAGCGCTTGCCTTTTTGTGCTGGCTCAGGCCCTTTCTTGCTCCAAAAGCATGA
GGGGCTCCCTGCCTTACTGACTTGCGGCGCTCCTCGAACTGGCTCTG

Sequence 4145

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCACTTTGTATAATATT
CAAAATCTATACAGCACATTGCTAAGCAGAGTATACACTCAAGAAATGTAGAATTGGTAA
TATTATACTAGAAAATGAACTTCCAGTATTGCTATTATTTTACTAATNATGCATAGGTCA
CTGACCTGTGAAGAGTGAACAGTATGTAGAAGTGCCTTTGAGATAGGAAATTGTGAGAGT
CCCTAACTTTTACATACATATTAGATTAATTTGAGCCTACATAAAAAGAAAACAAATTTG
TGAGGATTTGAGGGGGGAAAATCAGGGGACTTCCTGTTTGACGCTCTTATCATTGGGAGA
ACAGTAAATTAGATCTAGACTAATATATTGGGGNCTCTCTAATANATGGCAATTTGTAA
CTTTTGTCAATTGNAGNTGGAATGCTGAACAAAAAT

Table 1

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Sequence 4146

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTCTTAGCATTTTTTTTTTAAGCTGTTTTGGGGAAAAAAATCACATTCATTTTTTTT
CCCCATGATATGGATAATAAAGGCTGGATGTCTCTGACCTAGGGTGACTGCAGTCTCAAT
TTACATCTTATGTCCGGACGTCCCATTCATGTCTGCATTCATTCAGACAAAAGCGTCCC
AGTTTAGATGACAGATTATATGACTGCCCTTTTTTGTCTCAAGGTATGATCCAAAGGGA
AGCATCTTTCTCTGCCATTGCTGTTTCCCACGCGGGCCAACTGCTCANATGTTCAAGTGG
AGTCACGGCTCGGTTATCCAATCTGGCTTCCAAANATGTCCTTTTTTG

Sequence 4147

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGCAGCGGGAG
CTCCAGGTTTATCCTCAGTGTTCTGTGTCTGTGCTTATAGAGGCCCGTCTCTGTGGCC
GTGTGACCTGCAAGTATTGGGAGAGCCACAGCTAAACCCCGGGACCCCTGGAAGCCTAGA
AATGTTATGAGTTCTCATTTTTGTCCAAGACCTTTGGCCAGAGAACATACAAAATTCTTTC
CAAATAGGGATGCTGAGAAGATATGAAGAATGCAGACATGACAATTTACAGTTAAAAAAA
GGCTGTAAAAGCGTGGGTGAGCATAAGGTGCACAAAGGAGGTTATAATGGGACTTAACCA
ATGTTTGGCAACTACCCAGAAAGAAATATTTNAATGTGATAAAATATGGGAAAAAGTCTT
TCATTAAAGTTTTTTC

Sequence 4148

CGAATNTTCTCCCNGCGGCGGNGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT
GCTGAATTTAATCTGACTACCATTATGCAAGTAGGGGNGGAGATACATATACAGGAGTTT
NTGAGTGTTCTTTTCTAAACTTGNGCACATTATGTTNGTATATGAAATAGAGGCAGTGT
TTAGAATGAACGTGGCTGGGCTATACTTCTTGATTTTCAGNGTTACAACAAAGATTAGATT
AAAGGAACAACAACAGCATGTTACAAGAAGCATTCCAATTTTCCAGTAAGAACTGAGTC
ATGCAAGAGAGACCATAACAGGTTCACAATTAATCTAATGCAAATT

Sequence 4149

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTG
AGAAAGGGTCTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCAGCTCACT
GCAACCTCTGCCTCCAGGGTTCAAGAGATTCTCCACCTTAGCCTCCTTNGCCTGGGACC
ACAGGCACCTGCCACCACAAGCCGGNTAATTTTTCTATTTTTTGTAGAGATGGAGTTTCA
CCATGTTGCCAGGGTGGCCTCGAACTCCTGACCTNAAGGGATCCGCCCACCTCAGTTTN
TCAAAGTGCTGGGATTACAAGTGTAAGCCACTGCTCCACATTTAACTCCAATGACGCTGA
GCACAACCCANCACTNTAATTACAAAAATTTGTTTTGTTATAACTGAACATTCCCTTTCT
ATTTTAGACTTTTNTTGGCTGAACATNTTNTTCCCCCAGC

Sequence 4150

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAGGTCCTAAAGCCTT
CAATTCTTCGAAAGGAATTAGAAAGAAGGCCAGTTTGGCTTCAATGTGTAACCATGAGGG
AAAGAGGCAGGAGGAAGAGATCAGGCAGGCCCTGGTAGGCCATGTTAGATGAAGTGAGT
TTTTATTTTAAGTGCAGTGGAAGCCAGATAAGGGTTTTTTTGTTTTTGTTTTGTT

Sequence 4151

GAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTA
CATGGTTCTTCCTCAGAAAGTGGTTCTTCCTTAATGTGTTTCTTTTTACCCCTTTTCTTC
TTCTTCTTCACAGATGTTTCTTCTTCTTCTGCCACTTTTTCTTCTTCTTCTTCAACT
GAATAGGGTAAGGTGTAAAGGCACAACAAATTAACACTGTATCAGATCTCATTCCTTCC
AAAAACGTTTGAGTCCTAGTTTTTTTTCTGCCATTCTCATCAACTACCCAATGTTTGTTTT
GTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCACCACTAACTTTAACGAATGATATA
GATAGAGCTCAGAGCAATCTTCTCACGATCATGAAGTCATGTATAAAAATCAGGATTAAA
ACAAAGGGCATCTGATCTCCAATCATTATTGGGGA

Sequence 4152

CCGCGGTGGCGGCCGAGGTACGCGGGGGGGACTACAGGTGCCCCGCCACCATGCCTGGCTA
ATTTTTTATATTTTTTAGTAGAGACAGTGTTTCACCGTGTTAGTCAGGATGGTCTCGATC
TTCTGACATCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGT
CACTGCACTCAGTCAGGTTTTAGGTGCTGGCTCCATGGCTCTTCTGAGCCGAAAATAA
GGAACTCCATAGACCTTGNCCACTGGAACCTCGTTCCCATCTACCTCCACTCTATCCAG
GGTGATGGATCTCTGCAGTAAGTGGAAGAGTTCTTCATGGCCCCCAAGG

Sequence 4153

CCGCGGTGGCGGCCGAGGTACTTTTCTTTTTTTTTTTTTTTTTTTTAACTCTTTTCTTTT
TAAAGATAAAAATGAATGCTTTCCTTCACTACCCAGAAAACGACTTCCAGCCCTATACCT

Table 1

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GTGAGTATATACTGGGCCTNTGCAGGTCCTGAGCATGAGATTTACAGTGTATAATGTTT
TCTAAAAAGTTACTTATTGTTATTTTTTTAATTGTAAAGAATGTTTCATTGAAGTGAACCT
GGGAAACATAGGGAACCTCAAACAAATAAAATCAGTCACTCTTTTTTTAATTTTATTATTA
TTATTATTTTTTTACCACACAGAAGTAGCCACCATTAGCATTTTGGGTCTTTTTTTCTTTA
CTGAATTGAGAG

Sequence 4154

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TCTGNCGTTGTTGCTGTTTGTGGGTTTGCTTGNGTGCTTTTGTCTGTAACCTACTCAAT
AAATAACACAAAAGATAAAAGGCTTTGANAACCTTAACNTTTTTTCTATTGGCTTGGGG
NGTAAATCCACTGCAACAACCTATTACTACTTGAAAAGATATGCTAGAGTAAATAGAACAA
TACAGTTAAATTCACCTGAAGTCTTTAAAATCTTTTTTTTTTCCGGGTATTTTNAANCCA
TGTGGCAAAAAGGCATTACCATACAATTTTAGCTGTNGGNAAACAAATNATNNTNTTTTA
CATTGCTTTCCCAACNAATTNTGCATAGCACTTT

Sequence 4155

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTAAAGACAAGGTCTTGCTCTGTTGTCCAGGCCTGGACAACACAGCATGTGCAGTGGT
GTGAACATGGCTCACTGCAGCCTCGACTTCCCAGGCTGAAGTGATCCTCCCGTCTCANCT
TGAGAGTAGCCTGGAAACCACAGGTGTGTGCCACCATGCCAGCTAGTTTTTAACTTNT
TGTANAGATGGGGTCTTGTCATGTTGCCAGGCTGGTCTTGAACCTTCTGGGCTCAAGCGA
TCCTCCTGCCTTGGCCTNTCAAAGTGCTGGGATTACAAGGCNTGAGCCACNTGTGCTACA
CCAAATGTTGACAAGGCTTGTGTGCCAACCCTGGAATTGTCATTACATTTTGTGGTGAAA
AGG

Sequence 4156

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTG
CTGTNGNTGTTGTTGTTGTTGTTGNTGTTTTGCCTTTTTTTGNTTTTTTTGGGGTTTTTT
CTTTTGGCTTTTTTTGTGTATTANTGTNTAANGTTTNTAATTTTTTAGGGGGGGGNNAAN
TTTTNTNANANAATCATTAATTNTAATTTTAATTTTNTTGCACCCACCAGGANTTTATAA
NCCCAATTTTNAANNCCCTTNGCCTCTTTGGANACTTGCNTGCTTGGTTNNCCTNTCTG
GGGGCTCCATTCATAGCCACAATTTGTTTGCACCTTNGAGGATTTGTTGCAAGGCCCGTAG
CAAGGTCCAAANNNGGACTNAANNNGGAGACAAACCAAGATCAACTTTGCCACCCGGTNN
TGCCCAATGCACCCCNATTTTTTTTCAAAAA

Sequence 4157

CCGCGGTGGCGGCCGAGGTACAGCAGCCGGATCTCAGCTCACTGCAACCTCCACCCCTG
GGCTCAACCGATCCTGCCACTTCAGCCTCCAGAGGAGCTGGGACCACAGACACGCACTAC
CAGGTCAGGCTAAGTTTTTGGTTTTTTTTGGTAGAGAGGGGGTTTCATCATGTTGCCAGGC
TGGTCTTGAACCTCCTGAGCTCAAGCGATCCTCAGGCTCCCAACGTGCTGGGATTATAGGC
ATGAGCCACTGCACCCAGCCAAATTGCTTCATTTTTTTATTACTCCATACTTCCTACATAA
GATACTTCCTACACCTGGCCAAATTGCTTCATTTTTTTAAAATATATTTTATTTAATGTA
NTCTCACTCTGTTGCCCTGGCT

Sequence 4158

CTATAGGGCGAATTGGATCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTCTTTTTTTTT
TTTTTTTTTCTCCCGACTCAGCTTCCCACCCTGGGCTTTCCGAGGTGCTTTCGCCGCTGNC
CCCACCACTGCANCCATNATCTCCT

Sequence 4159

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTCTTTTTCAGTCCTACCCACTTTCTATTCC
CCTGGGACTCCAATGAAATAAATGTTAGATCTTTTGTACTGTTCCAAATGCCCTGAAG
CTCTGTTTGTGGTTGGTTGGTTTTCTTCCCCAGTTGATTTTCTCTCTATTGTTCTTA
TTGGGTAATTTCTATTTTTCAGGTCCACTGATTCTCTCCTCTCCCCACTCCCTTCTGCTGT
TGAATCCATCTACTAAGCTTTTTGTTTTGGCTACTGTATTTTTCAGTTGAAAATTTCTA
CCTTTTTTTTAAAATCATTTCTATGGGCTTTGGCTGGANACCTTTCTATTTTTTGGCCTGGA
AACCATTTCTTAATTTTTTCTACTTTGG

Sequence 4160

CCGGGCAGGTACTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTGCTAAAAATGCCCTGAGATAT
CCTTGGAGATACTGAATTGGACTTAGTTTTGGGGCTTCAATATGCCTATTCTGAATACAGN
ACTATCTCCCTAGGGAAAAATTTCTCTTNCCNTTTAAACCAATNACCCCAAAGTAAGNAA
CCTTTNCATTTNTTNNTTNCCCAANAAGCCAAATCTCTTTTTTNNTATAAGGGNATATNT
TNNTNNTTTANGNNCCAACNAAGGGGGGNCCTATCTCTTTTGAANTTNCCCTTTTATTNA

Table 1

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AAAAAGNGTTGTCCNNATCNAAANNGGNTAAATGGTCCAATCCTCTTTTAANANATGGGG
GTTNTTTTNNAGTATTTTTTAAGAATAAAAACTNGNGCNATTGNNAATTATTTNCNTTGTG
NANTNCTTTCAANTTTTTAATGATGATTTGNCCCCNTTANGNNGGNTTNANTTNGNGTCC
CCTTTNCAANGGGGGGTGATTNCTTTGNCCAAATTTTCTTACTTTTAAACC

Sequence 4161

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGC
GGGGGAAAACAAGATGGAGGATTCGGCCTCGGCCTCGCTGTCTTCTGCAGCCGCTACTGG
AACCTCCACCTCGACTCCAGCGGCCCGACAGCACGGAAGCAGCTGGATAAAGAACAGGT
TAGAAAAGGGCAGTGGACGCTCTCTTGACGCATTGCAAGTCCAGGAAAAACAATTATGGG
TTGCTTTTGAATGAGAATGAAAGTTTATTTTTTAATGGTGGTATTATGGAAAATTCCAAGT
AAAGAACTGAGGGGTCAGGATTGACCCTTGCCCTCATTAGTATTTTCGGATCAGNATTCAGN
AAGATATTCTGTTTTATTTTACCAGAAAGGGATGAAACCCCAAATTTCAACCTCCTGG

Sequence 4162

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAAGGTACATTTTCTTTGTGGC
ATGGTGGCCTGAAAATACTGTGAGGTTTAAACAATGAAGGCAGGTGACTGGTGAGGAGAGT
TCCAGCCACTGGATTCTCCCTCAGTCCCTGTGCTGTGGCCCTTGGTTGACCCCTAGATT
TCAGTGCCCTGCCTGACACTGGAGTCCCTCTATAAAGAAGCCCTTTCTAGCTAGCTAG
CTGTTCCATCCCGCACACCCCCACAGAAGCCTTTTGCTGCCATTAGTAAGCACGCCTCTA
TTTTCTCACCTGTGATTGATCATGCATGGATATGGAGTTTTTTGTCTATTAAAAGCAATT
TGTTAAGTTACTT

Sequence 4163

CCGGGCAGGTACCATTCTTCTAGTGGGGGAGGAGCATGACATTTTTGTGGTATTCACCCC
CAGAACAGGTTGGTATGGCTGGGCCACCCTGTTCCAGGTTCTTTGGCTTTCCCTGGGATG
CTGTTTTTTGTGNGCTTTGCCTGCAT

Sequence 4164

CCGGGCAGGTACTAGATACCCAGTAAAGTGCTTAACTAATTCTATCCCTTTGTNATCTAC
CCAAGTGTTAGTTCAGTCCAAAAGAGTCAATACATTCTAAAAAGGTGTTAAATATG

Sequence 4165

CCGCGGTGGCGGCCGAGGTACAATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAG
CGATTCTCCTGCCTCAGCCTCCCGAGTAGCTAGGATTACAGGTGCCCGCCACCACAACCA
GCTGATTTTTTTGTATTTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGTTCTCA
AACTCCTGACCTTAGACGATCCACCCACCTCAGCCTCCCAAAGTGCTGGAGTTACAGGAG
TGAGCCACCGTGCCCGAGCCCATATACTTTAAATTATCTTTAGATTACTTATAATATCTA
ATACAATGTAAATGGTATGTTAACAGTTGTTATACTATATTGTTTAGGGAATCATGACAA
TAAAAAAGTCTGTATGTGCTCAGTTCAGATGCTTAAAAAATATATAT

Sequence 4166

AATTTTTGCTCCANCGCGNTGGCGGCCGAGGTACTAAAATTGTGTTGGGAGCAGGGATTT
GGAAATTTNTGAGAGATGTGTAGTTAATTTAGTAATTCTGTTTCATGAGATATGATCTGT
TATGCTAGTGGTTTAAATAGGCTTGCTATGTAAGTAGAACGTGGCTCACTAGATATCTTT
ATATGTATGGGCATTACTCTTAGTGATATTTGTTTCTGTCCTTTGTTGCTCATGCTGTT
TAAGTGCAGGCCGAGACCCAGCCTCTTTGTAAGTACCAAATGATGCAAGAATGATAAGT
AAATGTGTAAATAATTTGCAGAGGAGCGTTTTAGGGTAGGAATGGCGATTGCTAAAAGGT
AAATTTAATAAAAAGGTGCTTCCTTTCTCAAATAGTTTCGCACCCCTCATCGGATCAT

Sequence 4167

CTCACTATAGGGGCGGANATTGGGANGCTCCACNCGCTGGGTGGGCGNGCCCGTAGCGTA
CTNTTTTTTTCTTTTCTTTTCTTTTTTTTGATACAGAGTCTTAGTCACCCAGACTAGAGG
TCAGTTGGCAGGATCTCAACTCACNTGCAACCCCTCTGCCTCCTGGGCTTCAAGTAGGACC
ANGCNCCACCTNCGCCTCCCAAGNTATGCCTGGGGGACNTACCAGNGCTGATGCCGCNCA
CNCAATTGNCCNCGGTCTACCTTNCTTTTGTNAATTTTNTTTTGTTAGTAAGAACNNGGG
AATCCGGTCAACCCANTTNATTTTTACTTTAAGNGNCTTTGGGGCNCTTNTTTTAAACT
TTNCTTGAAGCCNTTCAATAGGAAGNNANTGNCCACCTTCCCNCCCCTTCAAGGCCCC
TTNCTCNCCAAAAATGNNTNGNCNTTGGNNGNTNANTTTTATCNAAANNGGNCGNGGCNC
NANGGNGCCACCTTAGTTTTTTTTTCCAAAATTTTTTTTNAAAGGTTAATTTTNGGCCAA
TCAATTCCANTTTAGNNTNGNAAAATTAAAACCCATT

Sequence 4168

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAATAGAGACAGGG
TTTCACCATGTTAGCCAGGATGGTCTGGATCTCCTCTGACCTCATGATCCACCCACCTCA

Table 1

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GCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCTGGCCGGGTCAGGCTNTT
TNTAATNTGTTTAAAACCATATCACCCAGAAGGTATTCAGTATATACTTATTTAAATGAA
TTGAAAGTCATATGAGCAGCATGGACTTACTACTTTAAAAACCATATTAGAAACCTA
ACACCTTGGAAGCTCTGCATATTCTGAATGAAGAAATATACTAAACCACTCAGAGGGGAA
ATAGTTNTTAACCATTTTACCACAGGACGACTAAACCAACTACCATGGCCCT

Sequence 4169

CCGCGGTGGCGGCCGAGGTACCTTCTCTCTTCTTTGCAGAGGCCTTTCTGGGCTTCGG
CTGTGGCTTTGGAGGAGCAGGTTTAGCAGACAACCTTGTGGATCTTCTCTGCAGTTCCTA
CTTAACCTTGGTTTTATCTCCTTTAGCATCCCCTTCAGCCTTTCTCTCGGGCAGGGTGGC
AGCGACAGTGGTGGGACATAGGCACTGGGCGAGTGGAGCACGGGCTTTGGTCGGTCTAGGG
GTCATCGCCTCTTCTTCTTCACTGCTCTGCTTTGTGCATTTCTATTCTTTTTGTAGC
CAGAGAAGTAAATGCATATCTTTGCAACTAACACTTCCAGACTCATCTGCAAAATCAAGT
GCACTAAATAAATAAATAAATAAATAATCAATCATGGGTCTTTTGTAGATAAGTGTTTCC
C

Sequence 4170

AGGTACGTGAAAGCGCTTTGAAGATCACAAACCCATTTAGAAATNNGTGGGTGCTCTNN
CTCAAATCTTNGAAAGCTGCCTACTACTATAAATACATTCATTCATATCTTCCCTCATT
CCTTTCAGTANTTTAAAAATGTATAGGATCCAANTTACATGNAANCACTTTGTNAAACAC
TCACNGGATTTACTATGAANTAACAATCCTACTATATTCACAATTNTCAT

Sequence 4171

AGGTACTTTTTTTTTTCTTTTTTTTTTCGGTTTGGTTCAACATTTCTTATCTGCTTTC
TGTCATAGGAAGAACACATTGAGTGTAGTATTGGTAGGATCCTTCAGCACCTGCTTCTG
TTATGGAAGCTCAATGGGAAAATTCCTCTCTCCCCAGCCCTTGGCAGACANAGCTCATGA
TGGTAGAGTTTTTGAATGAANATGTGGTATGCTCTGGTAATGAAGCATCCAAGTCTGTG
TGGAATGTAGTGTCTTGGCGAGAATGTTTATAATACCTAACTTCCAGAATCCCTTTGGG
CCTNACACATTTTCCAANAACCTACCTCCCAACATGTGCANGACTTTTTTATTCTACCCN
GGNAAATTTCTTTCTTGCTTGGGGG

Sequence 4172

GGCCGCGTAATACGCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAC
AGGGTGTGAACAATGAAAAATTATAAAGGCATGTAATAAAAATGTTCCATAAAAACAAAG
ATACCTCAAGCAGGTCCACCTATACCTCTAGTTTAGTTTAGAACTAATTCAGTATTTTA
AGAATCATATAATTTTAACTTTGCACTAAGCCTAACCTTTTTTAAAAAATGGTCAGGGCC
AGGTGCAGTGCCTCAAGCCTGTAATCCCAGTGCTTTAGGAGGCTGAGGTGGGAGGACTGC
TTGAGTCCAGGAGTTCGAGACTGCAGTGAGCTGTGATTACACCACTGCACTCCAGCCTGG
GAGAGCAAGAACCTGCCCATTAAAAAACCAACAAAAATGGGCAGGTGTGGTGTCTCATA
CCTTGAAATCCCAACACTTT

Sequence 4173

TCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACTCTGTTTAGATA
AAGAATTAAACAAAACCTTCCATTTTTTATTAATAATTCAAGTATAATCCATAATATGATTA
TTAGGTGTTATAACTAATAAGTTGTTATTTTATATCTTAATGTAGGTAAAGAGAACTGGT
CTTGTGGTGGTGAAAAACATGAAAATTGTTGGTCTCCACTGTTCTAGTGAAGATTTACAT
GCCGGGCAGATTGCTCTTATTAAACATGGGTCAAGGCTTGAAAACTGTGATCTTTATTT
TTCCAGAAAACCATGTTCTGCTTGTGTTGAAAATGATTGTAAATGGTAAAGTGCAGAAAAG
GGTTTTG

Sequence 4174

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACACCAAAGTCTT
TATCTGACAGGAGCTGAGCCAGCGATTTTTCAAGGCAAGACAGTGACCAGCTGAACTCCT
GAGATAATGAGTATATCATTTCTCCTTGGCAAAGGTTATGGAATTAAAGAGATAAATAA
CTTAGTTCATACTTCCCTCCCTCAAAGTTAAAAGATATTCCTTTGCAGCGAAAAATGGAG
CTTTGAGGCTCCTTCGAGAAACGCTCCTTGGGGTGTAGAAAGGAGGAAGAGGTTAGCAT
GATTTTAAAGCAACTGGCATCTCTGCAGCTAACCAAGTTGGAGACATTAGGGCTTCTTGT
GGCCATTAACCTTTTGTGTATCTCACATCTCCTTCAGAACTTACGCTGGAAA

Sequence 4175

GACCATCCCTAATCTGAAAATTCAAACCCCTCCAAAATTTGAACTTTTTGAGTGCCAAC
ATNACACCTCAAATGGAAAATTCCACACGTGACACCTTTGCTTCTGATGGNTCTNTGAAC
CATCAGAAACACTGTTTATTTCAAGAACAANAATTTATTTTAAATTTTTGGTATTAA

Table 1

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Sequence 4176

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTCTCATATGTGGCAACTACGTGGGGCAGC
ACACTCAAGGAATGAAGGAAGTTTCAGTGAATGACAACTTTATAAAGACAGTGTGAGGC
AGCCCAGTGCAGCGGTTTGGGAGCCAGGAACAGCGTGTGGGCCGGAGTGTGGCTGCAGGA
CAGGAGGTNAAAAATAAGGGTTGAGGGTGAATAGGAAGACCCCGGAACGTCATNCTGGG
AGCTTGAGATTTTATTCTACATTTCTCTTGTCTTAACTATTTATGGTG

Sequence 4177

CCGGGCAGGTACAACTTTGCTATTTATTAGCTGGTCCTTGACATGACCAGGTTAGCAAGG
TAGAAAGATTACAAAGGTTGGCATGAAGAAGGTAGGCTTGTATGAGTGATGGTGGATGAT
AACAAATCTGGGGAAATGAAATGAACTACAGACAGGACACATGCGATGTGCTTCAGAGTA
TGCANCTTTTCCAATCAAGGAAAGCTTCNTGCAGGAGGCCAAACAGAACCTGAACGCTGC
AGTATGACCTCAGGGACTCACATCACTTTNTGAAATATCTAACAAAAATCGCATTTCTGC
TGTTGCACTCTGAATTCCTAGAACCTGTGCGTGAACCATTTCACTGCATTCATTTTCCC
CATGTTTATTTCTTTTAACCAGCC

Sequence 4178

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTCTAGATGATCA
CGAATGTCAAATATCACACTACACTGTGATATGGGGATTCCCCTTGGGGGTTTTTCATGTG
TATAGGGTGCCTGCAGCTACACTAAACATNTTAAAGCTACCACAATGNTCACTTCATATT
TNNGCTTTTATAGGCTTTCTTGGTCTCCTCCNATGTTCCCATCATTTTCTTGCTTT

Sequence 4179

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGAGAGG
CGTGAAGGCTCCCAAAGGAAATGCTGGCACCTGGGCCCAGAAGCCAGGGCCTCTAACTC
CTGGGGTTGATTTCTTCAGTGAAGTTGCACCCTACAAAGGGAATATGGCCAAAGCGGCAC
TCAACTGAAGGCTGATATCAGGCGATTAGACAGCCATGCATTCTGCGTTTGTCTGGAATG
GATTGTAGAGAGATGGACTTATATGAGGACTACCAGTCCCCGTTTGATTTTGATGCAGGA
GTGAACAAAAGCTATCTCTACTTGTCTNCTAGTGGAATTCATCTCCACCCGGATCACCT
ACTCTTCAGAAATTTGGTCTGCTTGA

Sequence 4180

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGAANTTGAGCAT
TGCTATGAANATACCTGAAANTGTGGAAGCNNCTTTGGAAGTGNTAATGGGCNCANGTT
GTANCANTTTGTAGAGCTTAAATAANACAGGAAGGCCTGNCCCCGGTGGNTCATGCCTG
TANTCCAGCNCTTTGGGAGTCTGTNGTGGGCAGATCTCAAGGTCAGGATCATTGACTAC
CATTACTGGCTAACACTGGTGAACCNCCATCTNTACTAAAAATACNCTTTTAATNTTGCA
CNANTAGGAAAGANNGGAAANNAATTACCCGGGTGTTGGTAGGCAATGCNCCTATGGATC
CTAGCTGCTGGGG

Sequence 4181

AGGTACGTATCATGTAGACCGCAGGCAGTCTTAATTTTGTAGCTGGTCTGACAATCTTTT
CCTTTTAATTGGAGTTTTTTTTCAGTCCATGCTATAGTTTGGATATGGTTTGTCTGTCTCCA
TCAAATCTCATGTTGGAATTTGATCCCCAGTGTGG

Sequence 4182

CCGCGGTGGCGGCCGACNNGGCCAGGTACNCGGATTGTCAAGTGGAAGATCTAATCANAC
TGAATATTCATTCATGCCTTGCTTTGNCAATAGGGAAAAAATTNCAAGGACAATCGGAT

Sequence 4183

AGGTACACGCAGTCCTAATCCGTAAATATTTNTAGCTAACAATGCACGTGGGGCTCTTC
ANCTCTGCATACAGTCATGTTCTGCTAAAGTCCATGCAAANTATAACCACATTTTGCCCT
GCTTTTTTTT

Sequence 4184

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCCATT
TATGTCCAAGGTGGNNGGCTCAGCCTAAAAAACACATTTCAAATACTCAATAATTATCA
CATGTGGCTAGNNGCTATCATACCGGCACANATCTCAACATTATTTTAAGTCTTAAATAA
ACTGATGGANAAAGATACCTCATATGAGAGAAACACTTAAAAGACAACACTGAAATGTA
AATGAAATGGTAACGNCAGGAGTAAAGAATCTAANATGGTAAGGAAAAGGACAGCAAACC
ATTTAATTGAAATCGTCACTGAGAAATGAAAGCTNTCCTCGGATANANCAATAGGGTTN
TGAAAAAATCAAANTNTTTTTCCAATTATTAACCTTGGCCCCCTCAAAA

Sequence 4185

CCGGGCAGGTACTATTTAAGCCAATTAATTAACCATGATCACTCAAACCTTAGGCAATATG

Table 1

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ATACTTATCATCTTCATATACAAAGAAAAATGGATAAACTGCCTATAACAATATAGCATT
AAAAATCCTATTGATGTTCAATATTCTGTGGCTATTAACACTGTGGGGTGTTTTAAAAG
TCAAAAATACTGAACTGTTTAGAAAATTCTGCATAGTAGTAGTATTACATTGTGAATTTT
ATTTTCAAATTTGATCAATAAAGATGAAAATAATAAAATTAAGCAGTCAAAGNAAGTAG
CAAAAACAAGATAGTCATTCATATATACAGGAACATATAGGATTCATTTCTAGTTTGATT
CAATCCTATTTTATGTATTT

Sequence 4186

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANGGTAGCTTCCAAATC
TAATGGAAATATTATCATGACATACTTTCTAGTTCGTTTGAGATTCAGGGGAAATGGATG
TCTCATGGTNTATGACAGTGAAACCCCTC

Sequence 4187

CCGCGGTGGCGGCCGAGGTACGCGGGGGGGCATCACGGACCTACCAATATGTGATGTCAC
CCCTGGTGGCCAGCTGTGTATGGATAAACTCCAGCTGGGCCCATAGATTCTGCANCGG
GAANATCCAANGCTT

Sequence 4188

CCGCGGTGGCGGCCGCCCCGGGCAGGTACCTGTCTCATATGTGGCAACTACGTGGGGCAGC
ACACTCAAGGAATGAAGGAAGTTTCAGTGAATGACAACTTTATAAAGACAGTGTTGAGGC
AGTCCAGTGCAGCGGTTTGGGAGCCAGGAACAGCGTGTGGGCCNGAGTGTGGCTGCAGGA
CAGGAGG

Sequence 4189

TCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTT
ATTTTCAAACACTCATATGTTGCAAAAAACACATAGAAAAATAAAGTTTGGTGGGGTG
CTGACTAACTTCAAGTCACAGACTTTTATGTGACAGATTGGAGCAGGGTTTGTTATGCA
TTGTAGAGAACCCAACTAATTTATTAAACAGGATAGAAACAGGCTGTCTGGGTGAAATG
GTTCTGAGAACCATCCAATTCACCTGTCAGATGCTGATAGACTAGCTCTTCAGATGTTTT
TCTACCAGTTCAGAGATGGGTAAATGACTAGTTCCAATCCCGCGTACCCAGAAAATAAGA
AAGGGGGTTCCAAATTTGAAGAATCGCTCCTTTTGCAAAACCTTATGGTAACAAATA

Sequence 4190

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTGGNTGCCTCTATAATCATTTTGACTTTAAATGTTTTCTGCAGATCCTTTAATA
ACTGCAAATGTAGAAGTATGGTGTAAACAAGTAATTGGTATGACTAACACTAAAAATGTAA
TGGGAAATAAGGATACTATTGTAAACGAAAACAAGAAAAACCTGGG

Sequence 4191

CCGGGCAGGTACATTTCAATACAGATGCAATATTTTTTCTCAAATACTTTCAGTCCAAAG
TTCGTTGAATTCAGTGTGGAATCAACAAATATGGAGGGCCAGTGGTGTATTTTATAA
AATCACTTGTATCAAAAGAAAACAATTTTAA

Sequence 4192

GATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTAC
ACATCTATTATTACCATGGCTGTGAGATCATTTAAGAAACAGACAAATGTCATTTAGAAA
CAGACTATAGAATCAAATCACAATAAAGAGAATGCTTTATGATAGCTCAGACAGTGGTA
GGAAATCAAAGGCAAATTCACATTTTGTATTACTCACCCTAAATATGCTGAAATTGAAC
ATTTGTGACCCAAGTAATAAAAATACATTGAAGAAACTATACTTAACATACATATTGA
GTTTCAATTCGAGTAGTCTATTTTAAAAACAACCTCCCATAAGGAATACAGGAATG
GAATCCATTGAAAGCAACAGCTGTCAAAAACCTCTGCCAAGAACTCAGAGTAACCTATTG
CATCATAAAGGTGGAGGTGT

Sequence 4193

ACTTANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGGCCGGGCACAGTG
GTTACACCTGTAATCCCAACACTTTGGGAGGCTGAGGCGGGTGGATCACAAGGTCAGGA
GATCGAGACCATCCTGGCCAACATGGTGAACTCTGTCTCTACTAAAAAATACAGAAAAT
TAAGCCCNGTCCATGGGTGGGCACGTTCTCTAGTCCCAGCTACTCGGGAGGCTGAGGCA
GAAGAATTACTTCAACATGGGATGTNGGAGGTTGCAGTGAGCCCGAGATCGCGCCACTTG
CACTCCANCCTGGTGACAGNAGCCGAGACCCCATCTCAAAAAAAGTTTGTATG
TGGACCAGCTTAACCCATAATTANAAATATAAAAAAGNAAAGTAATAAAAAGNAGAGAGN
AAAGTTAGGGGACAA

Sequence 4194

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACAGTGATAAATG
GAGAGACGGGAGTTTAAATGAAGGATAAGCCGCAAATGAGGATGAAGTTAATGGATANA

Table 1

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GAAAAGATGGGAGGAAGAGGT

Sequence 4195

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTGGG
TCTGAAGGGGTCACCTCAAGCGCTCTGCTATCTCTGCAGCTAAAACGGGTGTCAGGTTTTC
AGCTGCTACTAAAGATAATGAGCATAAGCGTTCCTGACCAAGACTCCAGCCAGAAAGTC
TGCACATGTGACCCGTGTTCTNTGGGGGCACCCCAAAAAGGCGAGGCTTGTGCTTGGGACC
ACACAANATTAAAGACCATCAACGNGGGAATTCTGCTGCTGTTTATTACCCCATTTCAAG
TTGACAACTNAGGCANNCNANAACCTCTCAGTCTCCAAATAAGNNAACTCACGTGTTTTG
GA

Sequence 4196

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATCCTGAACCATCCAGGCCAAATAAGC
GCCGGCTATGCCCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAG
CTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGAATGGCCCTAAATTCTT
GAAGTCTGGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGA
GCTTCTCAGACTATCCACCTTTGGGTGCTTTGCTGTTTCGTGATATGAGACAGACAGTTT
GCCGGTGGGGTGTTCATTCAAAGTCAGTTGGGACAAANAAGGCCTGCTGGGAGNCTGGC
CAAAGGGTTCAACNCANAGGTCTTNCCCCAGTAAAAGGCTTCAANAAAGGGCTTAAAA

Sequence 4197

CCGCGGTGGCGGCCGAGGTACCATGTTTTACTATCCTCAGAAAATTCCCAATAAACCAGA
GTTTGAGGACAGTAATCCTTCCCCTCTACCACCGGATATGGCTCCTGGGCAGAGTTATCA
ACCCCAATCAGAATCTGCTTCCCTCTAGTTCGATGGATAAAGTTTCATATACATCACATTT
TCTTGAACCAACTAGACAAGAAAAGTGGACACCTTTGAAAAATGACTTGGAAAATCACCT
TGAAGACTTTGAACTGGAAGTAGAACTCCTCATTACCCTAATTAAATCAGAAAAAAGGAA
GCCTGGGGTTTTACCAGGTAACNCAAAGNGCAATCAGNAGAAATTTGGGGTTGGTTTTATT
GTTTCATTGATTGTCATTACCANGGAATCCAGCCCCAAAAGGTGGATTGGGAAAG

Sequence 4198

ACTATAGGGCGAATNNGAGCTCCCCGCGGNGGCGGCCGCCCGGGCAGGTACATGGGACTA
CAGGCACGCCCCACCATGCCAGCTCATTTTTGTATTTTTAGTAGAGACAGGGTTTCACC
ATGTTGGCCAGGATGATCTTGATCTCTTGACCTCATGATCCGCCCCCTCTTGGCCTCCCAA
AGTGCTNNGATCACCAGGCGTGAGGCCACACACCTGGCCCTCTATTTATTCTCTTTAAA
GAGAGAGAAAATATTGAGAGGCCAAAATTATTTAATTAAATCTTTACCTTANCACAAGG
GAAAAAATGGGAATTTGCCTAATATAGGTGATGGAAAGNCATTACACAAATGAACAGTAA
ANCANTCACATTTNTTAGTAATAAAGGGCAANAAATTTTGGAGTACTTATTAAAGCT

Sequence 4199

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGTCCCAGAGAGCTCGTAGGGGAGGACA
GTCAAGGGACTCAAGCGTCTCTCTTGACTCCCCTTCTCTCGCTGTGCAGTGGCGGCGCCG
AGGGGTCGACGCTCAGGGCTAATCTCTATGAGTCACCTCGAAGGGCCCCGGGTAATATT
GGGTGGATCACAAGAACTAATCTTTTCATGATTTGGAAACCGGAAGGAAAGAAGCACTTTT
GTAGCTGACTTACCTCAATGACATGACCAGTGTCTGAGCCTACAACCTGCGCTATCTTCCC
TGGGATTTTTTCTTCACNCTTTTTCCTTACTTCATGGAGCCCAGGGTATGGTGTTTTTTAGT
TCCATTAAAAAAAGNAGCCCCCTTAGCCCAAGGCCGTTGGGTG

Sequence 4200

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATACTAAGCCA
GGGCAGAATGCTTGTGAAGTAGCAACTAAAGTGGCAGTGTCTTCTGAAATTCTCAGGC
AGTCAGACTGTCTTAGGCAAATCTTGATAAAATAGCCCTTATCCAGGTTTTTATCTAAGG
AATCCCCAAGAAAGACTGNGGGAATGGAGAGACAGTCAAGNGGTATTGTcantAAAAGG
GATGAGTATT

Sequence 4201

AATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACTTTANTTNTAAGGTTAAATTCCANAAA
CANATANTTTNCCTTTNTCTTTNGCCCCACCCCTGCTCAAGATGGGCTCTT

Sequence 4202

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTCANAGTATTTTCTTTCTTGTCAGATTAGCTAAATTGGATTGTTCTATGCTAAATTC
ACTTAATCACTACTCTATTATTTTTGAATTTTTTAGTTCTGTTTTTTCACTTGGTTCTT
TTTTTAAAAAAACTTCTACTACCTTTCTGAGACTTCTACTTTTTTTACTTTTTTCAAGAA
GCTTTATAATTACTTGCTAAAGCATTTTTACCATGACTGTTTTTAACTTNTTCAGATAAC
CNCAACATTTGGTTAATCTTGAGGTGGCTTGGTTAACTGTCTTTTCTCATCCTGCTTAT

Table 1

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GATTT

Sequence 4203

TATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTTTTTTTAATTTTTTTTT
TTTTTTTTTTTTTTTTTTGAGACAGTGTTCCTCTTGTGCCCCGGCTGGAGTGCAGTGGC
TCAATGTTGGTTCACGGCAACCTCCGCCTCCTGGGTTCAGCAGTTCTCCTGCCTCAGCC
TCCCAAAGGNAGCTTGGGATTACAGGGCATGCNCCACCATGCCCCACTAATTTTACTAGA
GACAGGGTTTCTTCCATGTTGGTCAGGCTGGTTCTCAAACCTCCCGACCTCAGGTTGATCT
TGCCTGCCTCGGCCTCCCAAAGGNGCTGANAATTAATAGGGCATGNANACCACACGCTTC
CGGNCTA

Sequence 4204

CCGCGGTGGCGGCCGAGGTACTCAACAAATAATAGCTGACAAGTTTGATAGCCAGAAAAC
GGCAAAGCTGGGATGCAAACCCAAGCAGTCTGACTCCCAAGCCTCTTAACCATTTCTAAG
AGACCACCTACCTCCATTCTTCTTCGAACACATGTTTTCTCCTGGTTTGCCACCTGAATAC
GTGGAACCAACCATCCACCCAGCTGGTTAAACCAGAATCACTCAGAAATCTACCTCTCCTT
CATATTATTCATAACTGCCAGTGTTAAATTTCTAATTGCTGGCCAGGCCACCGGTGGCCT
CATGCCCAGTTAATTCCTAGAACTTTGGGGGAGGCCCGCCGGGCAGGGTGGGATCACCG
AAGGTCAGTGGAGGATTCGAAGNACCCATTCCCTGGGCTTAACCATTTGGGTGG

Sequence 4205

ACGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTT
TTTTTTTTTAGAGAAAATCATTATGTCCCATTTCTTCTTTGAATGCTACTTTTCCTTCTC
TAAAACTGACCATGAATTATATTCATTCATCAATTTCTTATTTCTTTGTCAGAAAAG
CAGTTAAGCCATTTTTTAATTATTTATGCAANGTATTNNAACATTCATTGTTAAAAAAA
TAAAAAAAACCNAACAGGCANGAACTTTAAAAANAAAAAGTNTACAGACTTTTTCATCT
AT

Sequence 4206

TAGGGCGAATTGGAGCTCCACTCGCGGTGGCGGGNCGNCCGGGCAGGTACNGTGCCACC
ATGCCTAGCTAATNNCTTTCTTATTTTTGATAGACACAGGGTGTCACTGTGTTGCTCAAG
CTAATTTCAAACGTATATCTGAAGCAATGTCCCTGCCTCAGCCTCTCAAAGCGGTG
GGAAANTATTACNGCCATGANGCCCCAGGAGGCTCTTAATTAATTTCTTATAGACTGCC
GNGGGCCNTGGNATTTACGNTTNGGATTACCCATTTGTTNGACTGGACCTGGTTATTTN
CACGGGGGCCATAAAGGAACTAAATNGGTTACAATNTAGGCCAAGTAAATNTTAATNTN
CNAATNAAANAGATTTTTTGTTAATTGGGANAAGNNGGGNTT

Sequence 4207

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTNTTTTTTT
TTTTTCTTTNCTTTTTTTNNNNNCANNTNTNCATTTTTTTTAAAGATGGAGAGGCTAAC
AACTTTGCAACCTTTCCAGGTAAGGATTCATGANGACCTGAGCAGCCAGCCAGCCCTGA
AANGGTTGNGAACANNGAGAAAGAAGAAGAGCTTGACAGATACCCTGCCTGGGCNTGGC

Sequence 4208

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTTCTTTTTTAAATAACAAATTTATTTTTTACAGTTCTGGAGGT
GCCCCAAAAGCTTTTATTATCTAAATTAGGGTTAATGCACTTTTAAATCATAATGTAA
CATTTT

Sequence 4209

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTATGTCGATTC
GACAGAACATTCAGAAGATTCTCGGCCTTGCCCTTCACGAGCCGCCACCAAGCAGGCAG
GTGGATTTCTTGCCCCACCACCTCCTTCTGGGAAGTTCTCTTGAACCTCAAGAACTCTTTA
TTTTCTATCATTCTTTCTAGACACACACATCAGATTGGCAACTGTTTTGTAGCAAGAG
CCATAGGTAGCCTTACTACTTGGGCCTCTTTCTAGTTTTGAATTATTTCTAAGCCTTTTG
GGTATGATTANNAGTGAAAATGGCAGCCAGCCAAACCTTGATAGGTGCTTTTGGGTCTTA
GGATGAATTTTTTATTCAAAAATAAAGTNGGATTTGGATTAGTTTAAGTTTCAGGTAAAT
GGTTTTATGGTAAATGG

Sequence 4210

CCGCGGTGGCGGCCGAGGTACCATCCTCCAAAAGAAGTCAATTTTACTGTATAATAATTT
TAAAAACAAGTATACATTTTTTTTTTAAAGATGGAGAGGCTAACAACTTTGCAACCTTTCC
AGGTAAGGATTCATGAGACCTGAGCAGCCAGCCAGCCCTGAAATGGTTGGAACAAGAGAA
AGAAGAAGAGCTCGACAGATACCCTGCCTGGGCTGGCAGCTAGCTGCACCACAAGCTGGC
CAGCTGACAGCGGGCACATCCCTTCATCACCCAGTGCCTTTCTTCCCTCTTGTGAAAATG

Table 1

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GAGATATGCTGAGAAAGGTTTCTTCAGCTCATCCAGAGAAAGCCTTCTTCAGCTAACTAA
GGGCTGTAGAAAAGGGGCCCT

Sequence 4211

CCGCGGTGGCGGCCGAGGTACTANGGAAGGCAGACGGCTCGGGACTTGCCCAGCATCCTC
AAGCTGGCACCATAACCAGCGTGACTAGAGTCACCTCCCTTGGCTCCTTGTCCACTGCCCT
TTGCATCTCATGCGGGTCTCCAGAAGACCCCGCTCCTGCTGTGCAGGCTCCACGCATAC
CTTAGACACTGCTGTGGTGTGGGTGGCCACGTGACCCACACAGGCCTTTTCTAGTTTAC
CAGTTTTCTGCAAGGATGCTGGTTAGGGAGTGTCTGCAGGAGGAGCAAGTCTGAAACCAA
ATCTAGGAAACATAGGAAACGAGCCAGGCACAGGGCCTGGTGGGCCATCAGGGACCACCC
TTTGGGGTTGGATATTTTGCTTAATCTG

Sequence 4212

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGCATCACGGA
CCTACCAATATGTGATGTCACCCCTGGTGGCCCAGCTGTGTCATGGA

Sequence 4213

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGTGCACCTCTTGG
CTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAGTAG
TGGGACTATAGGCACACACCACCATGCCCATCTAAGTTTTTGTATTTTATGTAGAGACCA
AGGTTTTTACCATGTTGCCCANGCTGATCTTTGACCTCCTGAGCTCAAGTGATCTGCCCA
CCTCGGACTCCCAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCA
ACTTTAGAGTCAACATCTCTTATCACTGGGAGCTTCTAGAAGAAAACCTCCATCACGTGGG
TGCTCTCTTTCTGGATGTGTTGTGCCCCAAATAGCCTTGGTTCTCATTTCAAGATGACTT

Sequence 4214

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGCANATTGAA
CGCCTTTATTTTCTCAAATATAAAATCAGAGTCTCCTGAGGCAGCACATGAACTCCAGA
GAGAGAATCAACAACAAGAATCACATTGCTAAAAANAACAGGCCTTATTTCTTAATTCCA
NAATTGCTTCAATAGTTATTCTCTGAGGCTCCAGNGTCTTTTCTGTCCAAGCTACTGTCA
GGCAAGTGCCCCAAAAGCNCCACTCATCACATGTGCGTAATACCCGAANAATGTATACAGG
NTTCTTTTGNGTCCATTGCTTTTGTAGTTCTAAAT

Sequence 4215

CCGCGGTGGCGGCCGCCCCGGGCAGGTACATGCACTGTAGGCAAGTAAACGAAACCAAAGG
CTGGCTCCCCTGGCCGAGGCCTGGGACTGATGCAAGACAGCCAGCCAGTCACCTCCGCCT
CCCATGAACCTCTTGGAACCTTCTCCTGTCCCCTTCTGCCACCCTCCAGCTCCTTGAG
AGAGCCAGAGTTGAGAAGAAAATGAGCCTGAAGTTGAAAGGGAAAGTTCTTGCCCTGAAAC
AGTGCTGGGAATAAGTCCAGACCATTTCCCTCAAGAGCCACCTCTTCACTCCTTAAGCCA
GNAGGACACNCACAAAGACACAGNTTAATGGCCTTCTCATGCCCACTCCTCAGGTTGGCT
TTGTGAGGGGCAGGCCAGTTGGAGGGGACCTGGCAGGGATTTTTCAG

Sequence 4216

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT
TTTANANATGGGGTCTTGCTGTTTTGCCCAGGCTGATCTTGAACCTCCTGGCCTGAANCAA
NCCTCCTGNATAGGCCTNCCAAAATGCTGGGATTATAGGCATGANCTACTGCACCCTGCC
TTTTGTTTTTAANATAAATTCCTCANGCTAACANAATAAGCTATTAACCACATTTTNTAC
AAAGGTGATTTTAAGTCANGTTTATTCTNTAAAAATGANAGGCATTTAAAACAAAGATAG
TTCTCTAANCAACAACAAAC

Sequence 4217

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCAAATTTTGTA
ACATAAAAAATACTAAATGATCTTAAAGCTTCCTAAATTGTGAAAAGGGTATGTGCTAA
CATCTCAGAACTTTAGACCTGCTTGTGTGTCATCTTACCGATCTCTGATGATAAATGCAG
AAGGGATCTGAGAGTTTTTAAAGCAAGTAGAGTCAATCAGAGTTTTGAACATCATAGTAA
TACTTCCGTGATTCAGAGTTAGATCATATAAATCAAAGTAACAATTTGGATTTTTTTTAA
ACAACAATATCATAACTGTCATTAAAACAGATGGTCCAACCCAGGGAGCAGGATAATTA
ACCTTGGGGCAGCTTCTTGTGGGGGGAACAAGGACCGGGGAAA

Sequence 4218

GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAGGCATATGCTCTTCA
GCAAAAATGGATTTGGCCGGGCGCAGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAAGC
TGAGGCAGGCAGATCGCTTGAGGTCAGGAGTTCCAGACCAGCCTGGCCAACCTTGATGGAG
CCCCATCTCTGCTAAATGCAAGAATTATTAGCTAGGCATGGTGGCGGGTTTCTCTGTAGTC
CCAAACTGCTTTGGGAGGCTGANGCANTCAANAATTTTCTTGAACCCANNTAAGCNGGCA

Table 1

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NGTTTGCAATTTGANGCCCAANGTANNCNTCGCCCATTTGCNACTTTTTTANGCCNTGNGN
GGTGGACAATGGAGGCATAAAAACCTTCCAATTCTTTCNAATAAAAGGAAA

Sequence 4219

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGAGTAGC
TGCCCCCTTCTCAGGGCAGATGATGCTTTGAGAACATACTTTGGCCATTACCCCCAGCTTT
GAGGAAAATGGGCTTTGGATGATTATTTTATGTTTTAGGGACCCCCAACCTCAGGCAATT
CCTACCTCTTNACCTGACCCTGCCCCCACTTGCCATAAACTTAGCTAAGTTTTGTTTTG
TTTTTCAGCGTTAATGTAAAGGGGCAGCAGTGCCAAAATATNATCAGGAGATAAAGCTTA
GGTCAAAGTTCATAGGAGTTTCCCATGAACATATTGACTGGGCCACACAGGGATNCTTT
TGGTATTTTAAGGGATTTCTGAGATTTTGTCTTGGANCAGGGGATTTAAGGATAAAGGGG
CTNGTTCCTTTTTTAAATTTGGTCTGGAAAAATGGGGAAAC

Sequence 4220

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTTATGTGCTTAATT
AAAGACTGTAAACGTAAAGGATCATTCTGACTTTTTTTATGAGTTTTTTTTTTCTTTTC
CCCTGTCTAAATTGTGTGTGGGCTTCCCCAGTTTTTAACTCCTATCTTTTTCTTTAGTGA
TACCTTACTTGATAAATGGGACTTGGAATAGGTTTAACCCAGNTTGCATTCTCCAAAT
GTTTCCAGTGATATGTTTTCTGGGAAAAGCAAATCTGCCTGTAATAAATATTTTAAATC
TAAATAACCAAATCTGGGTGCCCAACTTTTTGTTGGGATTNATGCTGCTAGTNAATACCA
TTTCCATAATATCTTTTTTGGAAAAAAGNAAAAAATTACCCATTTGTGGTNATTGNGCTTG
GTGCCA

Sequence 4221

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAGGGCAG
GTGGAGTTGGCATGAACCTAACAGCAGCAGATACTGTGATTTTTGTTGACAGTGACTTTA
ATCCTCANAACGACTTGCAAGCAGCTGCCAGGGCTCATCGCATTGGCCAAAACAAGTCTG
TTAAAGNTATTCCGGCTGATTGGGTGNGAGACACTGNTGGAAGAAATAGTCTATAGGAAA
GCAGCCTCCAAACTGCAGCTCACCAACATTGATCATAGAAGGAGGCCATTTTACTCTGGG
AGCCCANAAACCCGCTGCCGATGCTGACCTCCAGTTGAGTGAGGATACTCAAATTTGGTT
TGGGATAAACTGCTGGCCCTC

Sequence 4222

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTATTTATTTATTTCTGGGGAGATCTGGGAGTCTCTAGACCGANAA
TAAAAATGGTCAATATTTAATGACAGTATCAAATGCCCAACATTTTCCAGGGGCTTTTN
ATGGATAAATCTCANTAGGAAGTTTTTCATTCCAGGCCTATGGGGGAGNTTATTGTTATTA
TTCCCATGATGAGAAAATCCCAATTNGANAANAANCCTAAGGCTTAAANATGGCAAGAAT
GGGGAC

Sequence 4223

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTCCTTGCTGTT
TTTTTTTTTTTAAAGACATTCCTCCCAGAATACTCCAGGGGGCAGTGTTTTATAACACATT
TTCCCCACTGGGTGATTGAAGGATGGAGGATTTTTGAAAATTTGACAGCTACATGAAACA
TGAGAAAACATTTTCTCACTTCTGAAGTCGGTTTGACAGCTGGTAACTTGTTTCATCCAGA
AAACATTCTAAAGCAATGAGACTTTGNGAGCTGTGCTTACAGTTTGGGAGAATCATGAAG
GATTCTTTCTATATTTTGCACTTACTTCCCAAGNGCTTCATAAGCCTGCATTTTGTNTT
TGGTNAACCTTAAAGACAGGAAAGGAAATTTTCGTAAATCCCTTGGAATAATTTGGAAA
AAAAAAAAAAAAAATTTGGGGGNTTTTTTTAAAAAGA

Sequence 4224

TTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACTGCAACC
TCTCCCTCCCGGGTTCAAGTGATTCTCGTGCTCAGCCTCTTGAGTAGCTGGGATTACAG
GCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTGTAGTAGAGATGGGGTTTCACCATG
TTGGCCAGGCTGATCTCAAACCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAA
GTGCTGGGATTACAGGCGTGAGCCACCACGCTCAGCCTACAAGCAATTTTTTAAAACTG
ACACCTATTACTGATAAAATCTCTGTTTAAATCCTATTTTACTATTTTTTAAAGGATAA
GTATTAGTTTTTTTTTAAATACCAAATAATTTCTGTTTATTTGGATAAAAATTTAAGGG
CATTT

Sequence 4225

CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACAAACAATGAAA
ACAAATCACATCCTTAGGTTCCATGATTACCGAGATGATTTCCCTGCCCCTAAGTGCTTT
ATTATATTTCTTAAAAAATATAGGAGCAGCAGCTTATCACAAGTCTCCACAAGTGCAATTA

Table 1

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ATGATGGAATCAAAACAACACAACAGGATTCATAAGGATGAGAGAACTGCAGAACAACCA
GAAGTCAGTTTTATGCTTCTTCTTGTCTGGATAATTCAGAATTTTGCGGTGTGCCTGTC
GTAAATATTGCTGCTGTTTGAAGTAACTTTAAAATGCTCCTTTTATGGCAACAAACGGC
AATCCCACCTAAAAATAATAAGGGAANAATTAGCCTTTTTTATAATGGCANGATTTT
AAGAGGAAACCAGG

Sequence 4226

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCAAATG
TGCCACTTGAATATCTAGTATGAAGCTGGTAATGAAGAAATTGCCATTTCTGAAGCAGAT
ATGAAATATGATCTGCTTAATTGTAAAGGCAACTGACCTTTCAAAAGTGCAGAGTCTTAT
TAAAAGAGGGGAGGGGGTAGAAGCAGAATAATAGTCATATGTCTAACCTGCCCCAGTTAA
CTCCTCTTGTAAATTATAAGCCAGTTATTTTTTTTAGATAGTATTTTGTCACTTGGAT
AATCACAGGAAATATATAAGNAAAAGAGCCTTGGACTAACCTTGAGGAAAGTTTGGGACA
TGGGAAAAGCAAGNACCCAAGNTTCCCAGGTTGGGGTTTAATTTTTTCCCTCTTGGGTTTA
TTTTTT

Sequence 4227

TCACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGG
ACTACAGGCACGCCCCACCATGCCAGCTCATTTTTGTATTTTAGTAGAGACAGGGTTTC
ACCATGTTGGCCAGGATGATCTTGATCTCTTGACCTCATGATCCGCCCCGTCTTGGCCTCC
CAAAGTGCTGGGATCACAGGCGTGAGCCACCACACCTGGCCCTCTATTTATTCTCTTTAA
AGAGAGAGAAAACATATGAGAGGCCAAAATTATTTAATTAAATCTTTACCTTAGCACAAGG
GAAAAAATGGAATTTGCCTAATATAGGTGATGAAAGCATAACAAATGAATAGGAAACAA
TCACATTTTAAGTTAAAAGGGCAAAAATTTGAGGACCTTATTAAGCCTATTATTGGGTA
GCTTATTTTTTGGGGTGGGG

Sequence 4228

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGTCTCGTTGAATTTTTACAAAAACTGAA
AGAGTTAGTTTTGTGTTATTACTACCTCCATCTCAAAGATGAGTCTTGGAAGCTTAAGT
AACTTTAGGTCACATTGTAATCAGTGGCAGAACTGGGACTTAAGAACATAATTCATGACT
GCATTTTCTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTTAAAGA
GATAGCATCTCACTCACTATGTTGCCCAGACTGGTCTTGAACCTTGGGCTCAAGCAATT
CTTCCACCTCCGCCCTCCCAAAGTGTTAGGGATTATTAGGGCANTGGAGCCCCCTCATGCCC
TGCCCCCTTGGCATTTTTCTATTTTAA

Sequence 4229

CCGCGGTGGCGGCCGCCCGGGCAGGTACTATATGGACACCAACATGGAGCAGAAAATGAG
GGCAGCAGTGTCCAATCTCATTCCAGGTGAGAAGTTGCACAGTGTCCAATAGGTGCATAC
ATCTCCTTAGTAAGTAGTTGTGATTAACAATGAAATAGAAATGAAAAATATATTTTTTTA
TTTATGTGTATTATATTTTTCAAGCAGCTAATAAGTTGGTAGGACATAATATTTAATTCTG
TTGGGGACCTAATTATTTATAAATTGAATGGTTAGATATTTCTTTTGGCCTAAGCCACCA
TGGAAAAAATCACTGAGGGCGCCTAAGGGGAAAACATNGAACCTANAGAAGCCCCCTCTG
AGTTCTTCTGGTTTTCTCAACTGTAAGGATGAAAGNAAACCCTG

Sequence 4230

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGAAACAAAAGAGATA
ATAAACTAATAGTTATTTAATATGCTGTAACAACAAATTAGAAACATTGAGAATTAAAGT
GTGTTTTCTTTGTAACAACCTTATCAAGAGTAGTTTGAACAAGGGTTGCCTTCTTCTGGT
ATAATTTAGATACATATCAGAGCAAACATCTTTTCTGTGGCTTTGCAAGTTGTCATACTG
TATTTTGTGTTGGATCAGCTTCCAACATTTTATCTTTTATGCTTTCAGTATTGTAAAATAC
CTCTCAGTTNCTTTAGCATGCAGTTTTTTTTTTTTTGTAGNCGTCTCCTTCCTCTAGGGA
ACGTTTGGTCATTTT

Sequence 4231

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGGATT
TTAGATTCTACTAATCCAACCCACTCTAGATGGTTTTCTTCTGTGATGCGCTGGCAGTC
AATACTATATAATGTCTATACTTTTGAAAGAAATTCGGTGGCTCAAGTAGTTTGGACCAA
TCTGACTTTCCTTGAAGAATTTTCATCTGTGACTGCAAGACCTTGTTTAAATTCTTCTACC
ATTACTGTTTCGAGTTGATGTGGACACATTATACGTAGAATTCTGTTGTGGGTAGGCAGGG
GTGATTATGGGCATGAGATGATACCCTATCTGATGGGATTTACCNCGAGGATCCCAGGAC
AGGGCAAAAATNCAAAAATTTGCTTTTCTTNTCTGGGTTTGCTTCAAGCAANGNCAACAAG
GGGATTTTGGGCACATTCCCCCACTT

Sequence 4232

Table 1

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ACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTNGGTTTAAAAAAAAAAAAAAAAAAAAAAAAAATTANCTATTCT
GGNGGATGNGNAANAGTATCTNATTGNGGGTTNGGTTTTTCATTTCCCTAGNGACTAANGA
NGTTGAATGTCTTCTCAGNGCCTATNANTGGTGATACTTANTCAAAAAATNNTTNTGNGA
AAAACCTGACCTTGNGAAGGTAAAANCTTTTGNNAATAATGTAATTTTAA

Sequence 4233

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACAGTAGTGCACT
CTTGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACA
AGTAGTGGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTAAG
AGACAAGGTTTCACCATGTTGCCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATCTGC
CCACCTTGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAA
TCAACTTTAGAGTCAACATCTCTTATCACTGGGAGCCTTCTGGAGAACTCCATCACGGT
GGGTGGCTCTCTTTTCTGATGTGNTTTGTGGCCCCAAATAGCCTTGGTTCTCATTCAA
GAATGGACTTATT

Sequence 4234

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTTCTGATCTCTTTTTCATGC
TCCTCCTTGCTCCAAAGAAAAGCCGGATGGCAGAAGAGCCCAGAACCTATTGGTGAGTTC
CACGAAGTACAAAATCAAGTCACGGCGCCTACAAAGATGAGGGGCAGATTCTGGCTGCC
TTTTAATTTTCGTCTTCACCTGATATCTGTGCCAGAGAATGATAAAAATCATAATAAAGG
AAATAATGGAAGAGGAGACTTATGTTACTGGGGACATCTAACATAATTATTTTCTGATT
CAGTGGCATGGTTCAGTCTTCCAGGAGTCTGCNTACAGAGAAGNAGAGTANACCCCCAT
TCCATCATGGGCCAAAGGCACCCCAGGTCAGGGGCTCCGGCTCTGGNATCCAGCCCCGAC
AAAAT

Sequence 4235

AGGTACCTGACTCATCAACTCATCTGTGCGCAGGTGCTCAGTCGAAATTTGTTAAATAAAT
GGAGGCGCTTAGTTAAGTTTGCCTTTTTCTTTTGTAGCAATGTGAAAGCTAAGGGTGGAA
GTCTAGAGTGAAGCTGAGTTTTCAGCTTGGGCAGAGGCTTAAGGAATAAAAGATGGAAGA
GTAATTAAGGAGTGGGTCTGTGCTGTGGGAAGTGCTGTGTCAAGACACCTGAGGATGGAAT
TGGTAGCCCTCTGTTTTGGGACTGGTTCAGATGGTGTTTTGGGTTCCTTTCTATGACCTT
TATCTCTGAAACTTGATTGTCTTAAAATGTATTTTGTGG

Sequence 4236

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGAACATATTATAATTATTTCAAAGTCCCT
TGTTAATTCAAACATCTGGATCACTTGANGGTCTCTTTCCCGGTATCCGCCTTCCTTNAT
TTTTAANCTAGGNCCCGGCCTCTTGGCAAAGCTATTTTTTAAATGGGGGGAAANACATTG
GTTNTTAAAAACCGGAAGGNGTCCNAACCGNGGGTTAATTTNNCCCAAAAAGGGNCC
TTTTTTTTTTTTTTTTTTTT

Sequence 4237

CCGGGCAGGTACCTCATCAATATGTGCATTTATTATTTGCCAATTAAAATAATATAAAAC
TCTTTAAAAATTAAAAACCATATATTTCCCTAGTATTTCTGGGATGATTTTTTTTTTCTCA
ATGACTTTTGAGAATGCTTTTGCTTTGTTCTCAAACCTTTGATAATCTCCATCATTACTG
GTTGGGTATCCCTTATCTGAAATGCATGGGACCAGAAGTGTTTCAGATCTCAGATTATTT
CATATTTGAAAATATTTCCATACAGATAATGAAATATCTTAATAATGGAAACCAAGTATA
AACAGGAATTCATTTATGTTTCATACACACCTTATGCATGT

Sequence 4238

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACAATTAACATAAATTTTTTTTAA
ATTAATAAAGTTGGTATTTCACTAGGACGATTTAGCAGATGAAATGGGTTTTAAGTTTA
NAACACCATTTCTTCTTCCTTATTACATTTCCCTTTTAAATGTTAGCCCTCTACAAACAC
ACACATATACACACACACACACACACTNTGCATCAAAAAGCCTTCCTACATTAAT
ACTTGAGCATGATAACCTTACAATGAAAGGTAAATCATTAGTTGAATCATGAAACATTTT
CTTCCCCCTGTGGAGAAAAATCA

Sequence 4239

CCGGGCAGGTACNTTTNTNTNAANCCTGNNGACTGGCTGGCTGCTGNTCAAGGCCACATT
AGTTTATTGTTAAGTGCAAGGTTTCTGGTAACAGAAATAAAGAATTCAATTGATTCATCA
TCAAGACCAAATATATTTACTAAAGATCTACCTTAAATTCATTTTTTTAGCAGGTAGTATG
GCATTGTGGTTAAGAATTTACATTTGTGAACATTTACCAGCTGATGACCGAGGTGAGCTT
CTGTTTCTCCTGCATAAACTTGAGATTATAAAAATCCCCTAGTTGGCTGGGCACAGTGG
CTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCA

Table 1

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Sequence 4240

CTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTCTGT
TGAGTGTGGGTTTAGTAATGGGGTTTGTGGGGTTTCTTCTAAGCCTTCTCCTATTTATG
GGGGTTTAGTATTGATNGNTAGCAGGTGCGNCCGNGNNGTNATNANNCNCAATTCNNGG
GNAGGTAATATCNGNNNAAANAGANGACTACACAAAACCANACCNAANACTNNAACCNCC
CNACNCCNCCNANACCNAACCNNACNANAAAANCNANNACCCAAAACAANNNCACANNAC
CAAANCNNCACCNNCANNANNACCNNAAC

Sequence 4241

AGGTACTTCCCATTTGTAAATCACATTTTTAGATAGTCCAGTGGCCAAAGCCCCAGACGA
ACAAAAACACTCGTATCAGCCAAGACATGCCAGAGGCCTAGTGATTGTTTCCCAGTAGCT
GAGGGCAGAAGCCAGACCTCTTTCAATAAGGTTGATCTTTCAGTGTATTAACACTGTATA
TAAAGGACTTTTATAAAAGCTTGTAGTTATGGTGTATTGTCATCATCCAGTTTAATGCC
CTCTTTTTTCCAGTAAGAAAAGAAAGGTCTGGGATAATCATGTTAATTGATTTGTTTACA
TTTTCATTTTAATTAGTAGCACAACTGAGAGTGAAAATGGAACC

Sequence 4242

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTTTTTAACAGG
AGAAAGTTTAAAACTAGAGCTCAGGGGGGAAAAAAGCCGAGAGAGAAAGGCACTCTGGA
CGCTANTGAGTGGGGACGGTGGTGGAATG

Sequence 4243

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCANCCCTAANNC
GTCAAATATTNNTAGCTAACAATGCACGTGGGGCTCTTCAGCTCTGCATACAGTNATGTT
CTGCTAACTCCATGCCACTNTNACCCTTCATGCCTGCTTTTTTTGA

Sequence 4244

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGAACAGTCAAAGTCACTGAAATGCTTGGT
GAGACATATGATCATTNGCTTTCTGCAATAATTGCCATAGACTTATTTCTTANGTCCCCC
TACCCCAAATGCTAAATTGAAACCCTACCTTTTTTTTNCAGANTATCCCTNATTATGAACT
TGATGAAAGATACCANGGAAGGTATCTTTTGTAAGGCAAGGTGGCGTCATCATNACTTA
CCATACCAATCAAAGGAAAACCATTTCCAATATGTAAATGGACCAAGGAAG

Sequence 4245

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATATCAAGCAA
TTCAGCTTTTTTCTTGTGATGTCATAACTTTCCCTGCTTCTTGGGGAGCAGTTCCAGCATC
ACTAATAGTGCTTTGTTTGGGCCACTTGTTATTTAAGGTTTATAATAATCGCACTAAACA
CAATNGAAAAACAAAAGGAGAACATTGAGAGATCACTTTAACTTTTTATAATCAGTTTAT
GTGTATTTTATGGTAGTAAATGATAAAATAGCTAGTATCTACATACAGTTTATACATTTG
TGGCATACCTTTCTCTTAATTTTTTAAGGTATTTTTTAGGCTACTTGGCTCATCTNANTTTT
TCANAAGNGTTGCGAGNTCTCCAAAAACTTCTCAGTGTGTTTTACTGGAAA

Sequence 4246

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAAACAACACAT
ACCTGTAAAAGTGTGAGGTTTAAACCAAGCGATTTTCCATTAAATATTCTCCCAGATGC
TCTGGAAGTTTTTTCGTGTATCTAACAAAAAAGTAAATTTCAAACGATGCAACAGTTCC
TATTCCTGGNAAATCAAACAGGTTTACTCCTTTAGTTTGGAACCTAAGCTTAACTAAGCT
CTTACCTTTGCATCTTCAGAGCTGCTCCACTGTGCCACTTAAGACAGCGCCATTGTTCCCT
GCGGGAAATCGGTATTTAAGCATTCTCGCAGAAAATGTCNCACTCCAAGGCGGTTTTTCC
ACACNAAAACCTTTCCCTTTTCATTTNNATTCCCG

Sequence 4247

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGCTGCAAAT
ATACCATGAGGTGTGTCAACTGTATAATTCCAGGCTCGTAGGAAATATCCATCCTCTGTG
AACACTAATATCTTTGGGATGTTATCCCTCTCTGAAGGTATACAAAAATAACTTCTTA
GGATCAGCTTAAAGGAAAGGTAATCTGTATCTTGGCGAAGAAAAAATAACTGAGAATT
TTACTACAAAACCACTTTCAAATCTAACATATCTTTCACATTGAAACCAAAATACTT
GAGACCAACTCAAAAATAAATTGCACAATTAGCATGATATAAACGCATATGGTCAGTTNC
TACAGCAAGGACAGGAAGGGCTGNTACTTCCTTTTGGTGTTCATAATTTTTTTTTTAAA
ATCCTCTTATTTTTACTTTA

Sequence 4248

CCGCGGTGGCGGCCGCCCGGGCAGGTACTGGACTTGCCATAATTTCTAGGCATGGAGTTGG
GGCTTGTAACAATGCTGGGAGATGGGCAGTGCTTTGGGAATGTAGCTGACCACTGCATGG
GTGCTAACTAGCCCAGGGATCTTAAAGAATTTNTGTATGCCATGAGGATCCACTNCANCC

Table 1

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ACTGAATAGTCATAGAATTGAATCTAGGACATCACCGTATGCTACTACCATGCAGTTTTA
TCCCTTCTAAGAATCCAAATGCCCTAGATTTAATTTTC

Sequence 4249

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCTCTAATT
CCAATAGATGAAACCTTAATACTTGTATGGCTTGAATCATCAAGTTATCCAGTTCTGGAT
TAGAAGAAAATAGAGGTTTTTCTGCGCGAATCTGTTTGGCGAACACGGCTATATCTTCAT
TGAATGACTCTGACGAGCAGACGTCCCCGCCGCCACCCCGGCTCGCGGGGGGTACAGC
CCAAGACGTTATGAATACCCAGGGTTAGCCTGATTTGGTAAAAGTGATTGAGATAAAAT
GTGAACAACAATTGTGCATGACATTTACTTGGCATTTTCCAGTTTCCAGGGGGCCTGTCT
CGTTAGCTGTCTCACGTGGAAAGCCACTTGGAACTCGCCGA

Sequence 4250

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTGCTTTTAAAC
CAACANGATACTGGGAAGGGGGGCACTGAATACTTACACACTGATAGAACTGCCACGCTG
ACCTCCAGTCACAAAGCGCTTCCCATCTGGATTCCAAGCCACACTTGTCAAACGTCTTC
ATGAGACTGGCTCATTTTTGTCTTAGTTCTCCTGTCTATAAGGAAATAAACTGTAAAT
GAGACCTTCAAGATACCCCTCTAAAGGAAATATATGAGAA

Sequence 4251

AGGTACATGTCAGTGAATCAAATATCTTTGTGTTTAAGCACAGCAAGACTGTCATTGAAT
GTGATAATGCTGCCTAAAATAAACTTCTTAAGTATGTAGANAGTATCCCATTGGNTAGA
TTNCCCGTTGTTTGTCCNTCTAATATATAACNCTTGTTTTTAAAAGGAAGACCANCAAN
TTANNTAACNCANANTGTATGTCNAAAAGNTTTTTTTTTTATTCAATGNCNCCCAGNCNA
TTTTTANCATTTTTTNTATNTTTATCTNCATGAATNCAAGCCACAAACATTTAATTTTA
TTTAACTTCCTTNAAGATTCGNAATCATGNGGCTTACAATATAATTAATAANTGGNGGNA
NNACCNCCAATAATTNAAGCGTCTTCTAATTTTNGGGGNTTTTNANNCCTTNGNGTTCCT
TTTNTNGNGGGTTANGNNAATNTCCCCCAATTNNNNTTTTATTANACCCCCCCCCNCNANA
TAANTTCTNCCAACCCAATTNTNCCCNACCNCCTTGGGGTTAATAACCCCTNCCAAGN
NAAAAATTTGGGNTGNAAANTATCCTTTTAAATTTTTTTTGGGGGNAAANAAATTAACAA
GNNTTAATAGCTTTTACNCCTTTTAAAA

Sequence 4252

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAATGAAA
AAACTCTTCTCAGTCATTAAAACATGAGTAACATGACAACTACAAAGCTTTCTCAGGAGT
AATAATAGAATGGATAAGATTTAGAGCCAAACAAGTGACTATGGGGACTCACCCATTTTC
TATTTATATTGTATAGAACTCTTAAAACAAAGCAAAATAAAACAAACCTGATTTACTCT
TTAATTCCCAGAAAAAGCTTTCCTTTTCTTCCACTCATTTGTATTTCTTAAACAGCTGT
AAATCAGCTTCTTGTATTGTGCTGACAGAGAAAATAAACAGTGATTGCCATTACTGGAAA
TTTAAAAGGTTAAATATTTAGGTATTTTACATGGAGCTTTTTATTGAAGGAAAATGG

Sequence 4253

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTGGCTGGCCCCAGGCAGTCT
AATGATAGAGACAGCTGGGTGACCACGGGTGTTCTAATGGGAGAGACTCCTGGTCAACCC
CAGGCAGTCTAATTATTAAAGACACCTGGGCTACCCAGACATTCTAATGGGAGCAACTC
CCGACCAACCCAGGCAGTCTAATGATAGAGACATGTGGGCCATCACAAGAATTCTAATG
GAAGAGGTTCTTGGCTGACCCAGGAGAGACACCATTTCTAATGGGAGAGACTCTGGGCCG
TTTCCAGGCTGTCTAATGANTAGAGAAACCTGGGCGACTGCAGGGCATTTTAATGAGGAG
CCGGCTCCTTGTTCCTGAACA

Sequence 4254

CNCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGGCTCAGCACGAACACCTTCTGCTCAAC
ACAAGCATTGCATCGCTGCTGACTCGTCAGAGTTGCTCATGGAGGTGCACGGAAATGGG
AAGAGGCCAGTCCAGAGAGGTGAGCAGATGAGCTTTGCTGTCCTTGCCTTCTGGAACC
GCACTGGTCTTCCCTTTGCTTATAAAAGAGAGAGAATTTGATTGCTGTGGTTGTAATGT
CTCAAACTTTTTTTGAGACAAGGCCTGGCTCTGTGCCCCAGACTGGAGCGCAGTGGTGCA
ATCTTTGCTCCCTGCANCTCCATTCTCCTGGGCTCAAG

Sequence 4255

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACTGCAACCTCT
CCCTCCCGGGTTCAAGTGATTCTCGTGCTCAGCCTCTTGAGTAGCTGGGATTACAGGCG
CGTGCCACTGCGTCCGGCTAATTTTTGTATTTTATAGTAGAGATGGGGTTTACCNTGTTG
GCCAGGCTGATTCTTCAAACCTCCTGACCTCATGTGGTGGCACACCANCTTGGCTCTCCCA
AAGATGNATGGNCATTNCAGNGANGAAACCACCTGGGCNTCAGCCTACNAGCAATTTNT

Table 1

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TTAAAACTGACACCTATTTANCTGGANAAAAATTNCTCCTGTTTAAAAATCCCTAAAT
TACTNATTTT

Sequence 4256

AGGCCGAGGTACCCCCGAATCTAAAATAAAAGCAGAAATTATATGAAAAACTGGGGTGG
GAGTTGGAAGGAACNTTTANATATGTAATAANTTTGTTTGAAAAGTNTAATTTTCTCAT
GCT

Sequence 4257

GGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCACAATTATTACACTATGAT
TTGTTTGATGGATAGTTCATGTCTGNTACTTCCTGTNTCACAGATATAGCTTCATTAATT
ACCTCTTGATCATCTCCATCAGTCCCAAATCCAGCTCCTCGCNGCNNTNGTCTGGAACAT
CAGGCTCATCCCCNGCGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGA
TGCGAATACAGCTCACAGAGAAACGCATGTGCTATTTGGAGAACANGNTCTTTTGTGGA
GATCTAAAGGCAGNTGATTTGATTTACAGGGGGAGGCTCTTAATCTCTGTTGATTTACC
AATGGNTCCCTTCNAAACNTCCCAACCCAAAA

Sequence 4258

CGCNTTTTTTAAATTAACCCGGAACCTTCCAACCTTAATTAAGGGGGGGTCCGGAAA
AATNTTGGGGGNAGNCCCTTCCCCAACCCCGGCCGGGNTTGGGGGCCCGGGGGCCC
CCCGNAAGGGGNTTAACCCGNTTAAANCCANGNGGGAACCAATTTCAANAATTAANAA
AAATTAATTTTNANGGNTTTTGTATAATNGNGGAAAANGNAAATTTTANANAATTCCC
ANAACCAAAAAANANTGGNGGGGGTTNGGAAATTGGGGGAATTCCTTCCTTGGCCAGGN
TTAAANGGTGGGGGAAAAGNAAGGTTTTCCTTTTCCAATTTGGGGCCCCCCCCCAAG
GGGGTTTTAATTAATTCCTTAAGGAAAACCTTTTCCAAGGCAACCGGGTT
AAAATTTTTTCCAATTTTNTTNGGGGAAAAAAATAANGGTGGCCCCCTTTTGGCCC
GGGGGAATTANTTAAAGGNTTTTAGGGGGTTTAAAAAAACCTTNGNAAANGAAATTGG
AAGGAAATCCCAATTNACCCTTGGGGGAATTTTAAAGGGGGAATTGGGGGGGAATTTCC
TAAAAAATTCCCCCAAATTTGGGAAAAAAATTTGGTTCCCTTTTCCAATTTAAAAA
AAAAAAAANCCAANGNGGGNAAAAAANGGAAAACCCCCCAATTTANAGGNAAAA
AANCCCAACCCAAAAGGNGGGNAAAAAGGNAAAAAGGGGGGTTTCCNAATTTGGGTTT
GGAAAAGGNAAATTTGGGGGGGAAGGGGGGGCCCAANGGGAAGGGGAATTTTGGGG
GGAAAGGGGGGGGGGAATTTGGGNCCCAAAGGCCCCCCCAACCCCGGGGGCCCCCCC
CAAAGGGGGNAAAAATTTGGGCCCCCCCAAAGNTCCAANGGGCCCCCAACCCCCCCCA

Sequence 4259

GGGNCCGNAAATTTGGGGGAAGNCTTTCNCAACCCGNCGGGGGTNGGGNCCGGGNACGG
NCNCAATNCTTTTGGGGGGNTNCAATNCGGAATGGNAAGCCCCCTTTCGGNCNCCCNTNGG
TGGCCNCTTGGGGGTNCCCCCGNCATTTTGTGGAAGGGGGGAAAAGGNNGNACCATT
TTTATGNAAAAAAATTTGAAAAATTTNGGATTGGTTGGGTTTNCCTTTTAAAAAGGGG
GAATTGGNNGGGGCCANGGGGAAAAAAACCAGGAATTCCTTGGGTTTNGGTGGGGGA
ATTAATTTTTTTAATTTTTTGGGAAAACCCGGGGGGGNAATTTTANCCAGGGAATTTT
TTTTTNAAAAAATTTGGAAGAGNTTCCAACCNAAAAAAGTTNGGAAGGNCCATTTT
TTTACCCCAAANTTTGGGAAGNAAGGGGGAAAAAAACCAGGNAACCCGGAAGGGA
AAAAAAAATTCCTTTTGGGAAATTTGGGGGGCCTTTTTCNAANCCAAAAGGGNAANCN
AATTTGGCCCANANCCAAAAAACCCAAAAAAATTTGGGGGGAAAAANTTAACCTT
TGGTTGGGAAATTTGGAACCAANTTGGTAAANGGGGGCCCAAAGGTCNCCAAAAAGAC
CCTTTGGNNGGNGGGGGGAAGGGGGGAAAGGGGAATTAATAACCCCAACCCGGTGGGG
GGGGCCCAAAGTAAAGGGGGGGGTTCCAAANGTGGGAAATTTTNTCTTGGGGGGCCC
CCCCTTTGGNCTTTNGGGCCACCTTAAAAAAAACCTTTGGNTTNGGNCCCGGGTTTTT
TCCAATTTTAAAAAACCCCAAAAAATTTCCAATTTTTTTTTTCCAATTTAAATT
TTTTTCCCTTAAAAAACCCCCCCCTTTCCAAAAA

Sequence 4260

AGGGGGCCCGNAAATTTGGGGNAGNCTACCCACCCGGCCGGGGNTGGGGCCCGGGACNCNG
AAGGGGTAAACCAATGGGGNTGGGGGAATGGNAATNTTTTAAAAAATTCACCCCCCTTA
AGNTGGGTGGNCNTNGNAGGNAACCTTTTGGGAAGAAAAAATTAATAAGNTGGNTGGNT
TGNAATNTGGGGGTNTTCCAATTAACCTNTNGNAAAGGNAACCGGGGGANTTAATTA
TAGGGGGAAAAGGNAAATNAATNTTTCCCTNTTTTAATTTGGGTGGTTNTNTCCNTN
CNCCAAGGAAAAATTTGGGGGNTGGGGCCCTTGGGTTTNTTCTTCTTGGNNGGGG
NTCNTTCAAAAATTTNGNCCCTTGGGGGGAAACCTTTGGGGGAAGGGGGNTTTTGGGAA
TTAAAGGGGTTTTTTNAAAAGGGTTGGGTTNGGTTTTTNCNTTTTAAACCCCGGNCCCC

Table 1

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TTNCCCTTTTTTTTTTTTCCCCTTTTTTTTAAATTCCTTTTAAATTTTTTTTTTTNGGA
 ATTGGGAAAANCCAACCCAATTTNATTTANTTTAGGGNGGNAAGGGAAAAACCNAATTNC
 CTTAATTTCCCCCTTAATTTGGGAAAAAATTAAAAAGGGNAAAAACCCCTTGGGGGGT
 NCAATTTGGGCCTTTTTTTTTTAAACCTTCCCCTTGGGTAAATTNNTGGGTANTAAAAN
 TATTNTNNTTGGGGTTTTNCCAATTTTTTTTCCCCCAAAANTTTTGGGGAAATTTTCC
 CTTTCCTTTAACCCTTTTTTTTTTNCCCCCCTTTTTTTTTTTTTTNGGNTTAAATTTNTN
 AAATTNGGTTGGGGNAAACCTTAAAAAANTTTTAAAGGTTTTNGGGGGGCCNAATTAA
 TTTTTTGGGTTTTTAAAAAAGGGATNCCNTTCTTTCCAAAAAAA

Sequence 4261

CCGTAAATTACCGACTTCCACCTTATTTAAGGGGGGGCCGAAAATTTTTGGGGGAAGG
 CCCTTCCCCCAACCCCGGCCGGGGGTGGGGGCCCGGGCCCCCGGAAGGGGGTTAAN
 CCTTATNGGGNG
 AAAATTGGTTAAAAAATTNTGGGGTNTNTNTTTTAAATTNANTNAATTTNTTAAAAG
 ANAGNGCCAACCCANCCAAGANAAAGGGTTCTTTTGGGAATTTTTTNATTAANANAAAA
 AANANANTTAAANAATTATTTNNNTTAAAACCCANTTGGGACCAAAAAATTTTTAAC
 CTTGGGAATTGGAATTCCTTGGGGGAAGGCCCTTCTTGNGAAGGGGGGTTCAAAAA
 AACCTTTCTTTTTTTTAAANAAATGGGAAATCTCCAAGGNTNGGGNAAAAAACNCCCAT
 TTTAAAAAANACCCNTTTNCCCCAATTTGGNAATTTCTTGGGNTTTTAAACCCAACC
 CAANCCAANCCAAGGGGGGGAGGNCCCNNTTTAATTTTTTCCCCCAAGGNTTTTTGNGTT
 TNNAATAANAAAAAACCCAANAATAATTTTNCCCCCTTTTGGNAANAGGGGGGCCNTT
 TCCAANGTAAAAACCCGGGAAAAACCAAAAAAANTTTCCAAGGNTTCCCTTTTTT
 TAATTGGGGGNCCAAGANAAAAANGGNCCAACCCAATTTNCTCNAAAAAGGTCCNTTA
 TGGGGGCCAAAATTTGGNAAAAGGTTTTTACAAGNNCCCCCTTGGGGGNCCCCCAAACCGN
 NTTGGNAAAACCCCTTTTTTTTCCAACCCCAAGGGCTCCAAGGGCCNCCTTAATTTAN
 AACCCCTTTAATTGGGGGAAGGCCCAAGGGGGNAACCCAGGGGGGAAAAAAGGCC
 AAATTGGGAAATTCCTT

Sequence 4262

AATTACGACTTCACTTATNAGCGGGNCCGNAAATTTGGGGNAGNCCTTCTCACNCGGNCC
 GGGNTNGGGNCCGGGNCNCCGNAGGGGTNNANCCCCAAAAAGNAAGGGGGGCCATTTAA
 AATTAAANTTCAAGGTNCCTTCCAACCAGGATTAGGGGGGGTTTTCAAACCCCAATTCNC
 CTTCNCCAAAGGGTNGGAAAAAACCCTTTTGGTTTTCCCCGGAAAAATTGGGGGG
 CCTTTTTTCCCCACCAGGGGGCCTTAACCACCAACCANCCAAAAAACCAGGGGGAAA
 AACCAATTGGCCCCAAAAGGTTTTTTGGTTTTTTCAAACCGGCCCAATTTTGGAAATTG
 GAACTTTTTCTTTTCCCAAAAGGGGGNAATCCTTTTCCNTTTTTTNGGGGNCANTTTNG
 GAACCCCCACCNATTTTTCAAGGGGGGGGNCCAAAAAGAAAAATTTTTCTTTTCAAAT
 TANGNCAACCAAGGCTTTCCACCAAAATTTAACCCAAGGGGGGGGCTTTCCCTTTTTT
 NCCTTCCCCCTTTCCTTAACCAAAAAAATTTCNCCAAAAANTTGGTTTTANGNNGGCCCC
 CAAATTTTGGGGNTNAATTTTTTTTTTTTTTGGGCCAAAGGTTTGGGAAAGGNCCCGGNCC
 CAAANTTTTTTGGGGNAAAAATNTTNCNTTTTTTCTTTGGGGGGGGGTGGGGGGCCCCA
 AAAAGGGAAAAATTTTTTTTCCCCCCCCCAAANGGGTTNGGGCCCCCAAACNTTTANAAA
 ANGAAAAAATTNGGGGGTTNCCCTTCTNTTTGGGNAACCCAAGGGAAAAAAGGGGTT
 AAAAAAAGGGGAAGGGGGGCCCAAAACCTTTAAAAANGTTTTTTTGGNANGGGNA
 AAATTTAATAAAAAAATTTTTT

Sequence 4263

CGCGCGTTAATTAACCGGAACCTTCCACTTTATTAGGGGGNCCGAAAATNTGGGGGNAG
 NCCTNCCCCACNCCGNCGGGGGTNGGGNCCGGGNCNCCGNAAGNGNTTANCCAAAGGNTT
 CAAANAGGGGGGGTNCANANCCAATTGNAATTAACCANANAATNGGGAATTCCAATTC
 NCCATTAGGGNAAAATTCCANAATTGGTNTNTNCTTAAANAATTAACCANAAAAGGGNA
 ACCANANGGNAAAGNCCTTTTAAGGNAATTTTTTAATTCCTTCCAACCTTGGTNTTCCCA
 ATTAGGNAAAACCTTTTAATTAACCAATTTTCCAATTTTGGTTCCTTTTCTTAAGGCCT
 TTTGGTTAAAAAACCCTTAAATTTTGGGTTTGGGGGTATTTAAAAATTAAAAAA
 ACCCTNGGGGNAAAAACCTTGGGGGGNAAAAGGNAAATTTTGGGAAGGCCNAAAGGNAA
 CCNTTGGGCTTTGGTNAATTAANGGAAAANTTCCCAAAATTNCCCCCNAAANGGTCCAA
 TTTNCCTTGGGCCCCCAANGGGGGGGTTAAGGGAAATTTNCCAAGGGTTTTTTTTT
 TTTTCCTTTCTTTTAAAGGCCCGGTTTTTTTTTGGGGAATTTAAAAAGGGTTTCCAAAGG
 GGGGCTTTGGGAATTTTCTTTTTTNAAAAAAAGGNGGTTTAAAGGGNAAAAAGGGTT
 TTTNGGGGGGAAAAAATTTTTTTTTTTTTTTTTTCCAAAAGGGGGGGCCCAAGGG

Table 1

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TTGGGGGGGTTTTTCCNTTTCCCAAAAAAAAAAGGNCCCAAATTTAAAGGGTTTTTTTCC
 CCCCCCAAAAAAAAAAAAAACCAAAAGGGGCCCAAGGGTTTTAAATTTTTTGGGGGGGCC
 CCCCCTTTNCCAAACCCCNNTTTAANTTAAAAAAAAAANCCCTTTTTTGGGGTTTTTAAAG
 GGGAAAAAAAAAATTTAAAC

Sequence 4264

GCCGCCGTAAATTAACCCGGAACCTTTCCAACNTTAATTAAGGGNNGNGGCCCGGAAA
 AATTTTGGGGGNAAAGGACCCCTNCCCCACCCCCCGNCCGGGNTNGGGGNCCGGGGGACC
 NCCGNCCCCNATTNCNTTTGGGGGNNGNTTCCAAATTTCCGGAAATNGGAAAGGACCNCC
 TTCCGNCCCCCCTTGNTTGNCCNCCTTGGGGNTNCNCCCCGNCCCTTTTGGTTGGNAAGG
 GGGGGGGAAGGTGNAACCAATTTTTTANGNAAAAAAAAAATTGGAAAAATTNTNGGGAAT
 TGGGTNNGGTNTNCCCCTTTTAAAAAGGGGGGAATTGGGGGGGGCCCAAGNGGNAAAA
 AAAAACCAAGGTAATTTCCCCTTGGGTTTTTGGGTGGGGGAAATTAATTTTTTAATTTT
 TTGGGAAAACCCGGGGGGGAATTTTTTAACNCAGGAATTTTTTTTGAAAAAAAAATTGAAA
 AAGNTTCCCACCCAAAAAGGTTNGGGAAGGNCCANTTTTANCCCCAAAATTNGGAAAG
 AAAGGGGGAAAAAAAACCAAGGAAACCGNAAAGGAAAAAAAATTTCCTTTTTTGGGAAT
 TGGGGGGCCTTTTTTCCACCAAAAAGGGAACCCAATTNGNCCCCAAAACCAANAAGGGCC
 CAAAAAAAAAATTGGGNGGNAAAAATTNAACCCCTTGNTTGGGAANTTGGNAACCCAAG
 GGGGGGAANGNGGGCCAAAGGTCNCCAAAAANGNCCCTTGGNNGGTGGGNGGAANGGGGN
 AAAGNAAATTAAAAAACCCCAACCCCGNGGGGGGGGGGCCCAATNTAAAGGGGGGGGGG
 TTNCCAAAGNGGGGAAAATTTTTTCCTTTGGGGGGCCCCCCCCCTTGGCCTTTGNCNCTTTA
 AAAAAACCTTGGGTTTGGGCCCCGGGTTTTCCCATTTAAACCCCCAAAAAANTTCCAA
 TTTTTTTCCAATTT

Sequence 4265

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTAGTAAAAGTGATCAGACTGTTTCCTCTT
 TTAAGAAGAAAAANAAGCAGAGGTCAATATTAAGCTTCCAATTAATGCTTATTCATCAC
 AAATAGTANGTAAATAATGACNGAAAAAATTNCNTNANTCNCNTNTTTTANCCANACTT
 TTTTGTTTTATTTTTTAAATTTTTCANTATNTGANATTTNCNANATTTGTTTNATTTTCT
 GTTACCCTNTAACTGCAATACAAGCTCTTGTTGGACTGGAACCACACCTGTCATATTCATG
 CTGAATCTCACCTGTCATATTCCTGCC

Sequence 4266

CGCGTTAAATTAANCCGGACCCCTNCAACTTTATTAGGGGGNCCGGAAAATTTNNGGANAG
 NCCTNCCCCACNCCGNCCGGGATGGGGNCCGGGNCNCGGNAAGNGGTTACCCAAGNAAAA
 AAAGGGGGTNGNAAAATTCCTTGGTNGGTNTNCTNNGGTNATNATNTNCTNNGGCNCCTT
 AAAGGGGGGCCAANAAGNAAAAAATGGGTNTNTNAAGNCCTTCCTTCCTTTTTTAAAA
 AAAATTAAGGTNTTCCCAATTAAAATTTTTTTTTTTTNCCTTAAAAAAAAGGCCTTTTTG
 GCCTTTGAAAAAAAACCTTGGTTAAAAGGCCTTTTCCNCCCAATTAANTTCCTTTGGG
 GGAAGGCCAAATTTTTTTCCAANCCTTTTTTTAAAAAANTTAATTTTTTTTGNNGGGAAAT
 TAAAAAAAATTAAANTTGGGTTTTAAATTNCCTTTTCCNTTTTTTAAACCNTTTTNGGGGG
 AAANCCNAATTTTTTTCCNAATTTGGGGTTNGGGATTNTATTAAAGGGGGGGGGGAAAA
 NTTTTTNGGGNTNCCCTTTTTTTCCCTTTAAAAAAAATAATTTTCCCNTTTTTTCCCCC
 CNTTTAAAAAANTTTTTTCCCNAAATTTAAATTTTNAAGGGNCCCTTTTGGGNCCCTT
 TTTAAAAAAACCCCNAAACCCCTTTTTTTTNNCCCCCCCCCCCCGGGCCCAAAAGGNNA
 AAANGGGNTTTTTTTTTTAAAAAAAACCCCCCCCCCNAAATTTTTTTTTTAAANC
 CCCCNAAAGGGGGGNAAAANTTTNAAAATTTTGGGGGAAAAAAAATAAANTTTT
 TAAAAAAAANAAGGGGGGAAAAAACCCCCCCCCCTTTTNAANTTTTTTTTTT
 GGGGNAAAAANTTTTTTTTTTTTTTGGGGGGGAAAAANCCCCCTTTTTTTTTTNAAAA
 ACCCCCTTTTTTTTTT

Sequence 4267

ATTACGACTTCACTTTATTNAAGGGGGNCCGNAAATTTTGGGGGAAGNCCTNCCCACCCC
 GNCCGGGNTGGGGNCCGGGNCNCCGNCCCCGGGGNCCAGGGGGTTAACCCAGGGAAT
 NCTTGGGGGGGAAAACCTNAAAAATTTAATTTNAAAAAAAATGGNAAGNTTGNTGGGG
 GCCTGGGGNATTAATTANTTGGGGAAGAAAAATNGGTTTTGGGNGGCCCNCCAAGAAAA
 AGGTGGNAAAACCCCGTTAAGNAAGGNATTCAGNAATTAATTTTACCAAAACCAGGNC
 CTTTTTTTTGGTTTTTTTTTGAAGGGGGGTTTTAAGNAAAAAANTTANTTGGAAAAAAT
 TGGGAATTTTTTNGGGNTTTTNTTNGNAAAACCCGNCCCANCCAAGTTTTTTTAAGGGG
 CCAAGGCCAAAGGGGGGGCCCCCAAGNAAAATTTCCCNCTGGGAACCCCTTCCTTTG
 GCCCCCCCCCGGTTGGGGGGTTTTAATTACTTTCCCTTNNCCCCCCCCCAAGNCCTTTTG

Table 1

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GGGGCCTTGGGCCCCCTTTCCAATTGGGTNNCCAAATTTCCAAACCAAANGGTAAATTT
TTTCCCCNAATTTTTTTTTTTGGGNTTNTNTTGGGTATTGGNCCNAATTGGGTNNCCTTT
TTNGGTTNGGGAAAAAGGGGCCCCCAANTTCCCAANAAAGGGNAAATTTTTTTTTTTCCT
TTTTCCCGGGTTNNCCTTTGGGTTTTTTTTTTTNCCCCCTTCCNTTCCCAAATTNTTG
GGGTTTAAAAAATTGGGNCCTTTCCAACCTTTTTTTTTGGGTGGGAAACCTTTTTTCN
NAATTTTTTTTCCAAAAANAATNCCNTTGGNTTAANAATTTCCCCCCCCGGGTTTTTCCA
AAAAAANTTAAAAAAAATTNATTTCCCCCAACCCCAAAACCCAAGGGGGNANTTTCC
CTTTGGGTTTTTT

Sequence 4268

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTCATTATTTACCGTTTATAATTTGGAGGT
AAGACCATTAGACCCAAAGAACTTTTGTCTTGGTGTGTTCTTGTTTAAATATGGAATTTA
TTTTACAAAATAGTTTATGTTTTGTATACATGTCTANTCTNAANGGGCCCAAATTTGAAA
TTTTAATGAGTCTACANAAATGTTCTAAGTGGACTGGGTGGTGCAGCAGCTTNCNCCAT
CGTGATATTNACAAGAATGCCNGGTCTCTCTTGACNGACAGGTCAATGGNTGTTCNATGT
GCANCTGGCCAAAGTGTCTANTANAATACTACANAATGAACCTGTATTTNATGTGNACTGCT
CAACTAGAAAATNTAGCCACTCTCTGCTTTAAGGCTTTGGAAAA

Sequence 4269

TACGACTNCACNTTATTAGGGGGNCCGNAATTTGGGGGAAGNCCTTCCCCACNCCGNCG
GGGNTGGGGACCGGGACNCCGNAGGGTTNANCCAAGNTTAAAAAAAATTTAGGGNAAAA
TTAATTNAAAAAAAATNGGCCTTACCCAACCAATNGTTGGGTAGGNGNGGCCA
CGCTTTTTTCAATTTTATTAAANTTTTNGGTNCNCAATACNTTTTTTGNACCTNGGAAAA
ACCAATTTTANTNTTAATNTTCCAAGNCCGNTTATTGGGAACCTTAATTAATTAATTAAC
CAANANGGAAAAAAACCATTAACCAACCNAACCAACCNANCCAACCCAACCCAACCA
ACCAACCCATTTTNNACCCACCCANCCATTTNTCTTTNGGGGGNTNTTATANTANTT
TTTTATTTTNTTTNTGGGAAAAAGGAAAAATTTNGGGGGGNAAAAGAGTTTTTTTTTTT
NCAAAAACCTTTTCNCNTTTTGGGGGNTAAATGGGGGCCCCCCCCCCCCAAAAAANGNN
NCCNTTTGGGGGGGNAAAAGGATTTTTTGGGCCCCAAAAAAATTTNNGGNGGGGNCCC
NGGGTCCCCNGGAAAAAATTTCCCNNTTTCCNGGGGGGGGNCTNTTCCNAAAACCTT
TTTNGGGGGCCAAAAAAACCCNCCCCNTTTCCCCCTTTTGGGGGNCCCCCCCCCTTTNCC
CCCCNCCCAAAAGGGGGGGGGTTTTTTTTTTCCCNAAAAANAANGGGGNCCCCGGGGNA
AAAAATTTNTTTCCCCCTTTTCCCCCTTTTTTTTTTNGGGGGNCCCCCCCCCTTTTTTCCCT
AAAAAGGGGACCCCCCCCCCTTTTNNCCCCCCCCAAAAAAAGGGTGTTTNNAAANGGGN
TCCCCCTTTTTTNGGGGGGGGGGGGGGCNAAAATTTTTTTTTTNAAAACCCCCCAAAAAGG
GGGGGGGGGNCCCCAAAAA

Sequence 4270

CGCCCGTTTAAATTAACCCGGNAACCTTTCCAAACTTTAATTTAAAGGGGGGGGNCCGG
AAANAATTTTGGGGGNAAGGACCCTTCCCCAAACNCCGNCGGGGGGTTTGGGNGGACCG
GGGTCCACCCGNCCCACCCGGNGGGGGNCCCANGGGGGTTTAAACCTTTCCCCCANAA
AAGGNAAATTTTCCNANGGGGGTTNTTTTAAACCTTNCCAACCGGTTTNCCAANTTCC
NCCAAGNCCAAAGANAAGNNAAAATTGGNGNAAAAANANGGTTNCCANAAAAATTTNTT
CCCCTTNGCAAAAATNTTGGGCCTTAAATCGATTGGGTACATTGGGGGGTTTTTTTTNCCA
ATTCNCCAATTCCCCGGAACCAATTTTGGGAAAAAGGNTNTNGGAAACCTTTTAACCTT
TGGAAAAAGNAAAAATTTGGGGGTAAGTAAGGAAGGNAAAAATTTGNAAAAAAAAG
GNNTTGGGGGAAAGGCCCATTTTTCCAAAGNAAACCTTTGGGNTNCCTTTTTTTTCCAA
GGCCCAAAAAGGGGGGAACCTTGGGGTTCCCTTTTTTTTCCCTTAAATTCCTTCCCTTT
TNGGGTTNAACCTTNNTNTCANNTCTNTNTNTNTTTCTNTTANTATANTNTANTNTN
TTATTCTTCATNTTCTTNGTGGGGGGGGGGCCCCNCCCGNAAAAAGAAAAAAACCTT
GGGTNNCCCCCTTCCGGGCGGNGGATTGGGGGAAAGGGCCCCAANNTTGGGGGGGNNAAC
CCCCTTTTTTTNAATTTTTCCCGGTTNTTAAAAAGGNNAACCCAATTTCAAGGGGGGGCC
CTTNCNCCAANTNANAAATTAATTTGGGAAAAAACCTTTTTTTTTCAANGTCCCNAGAA
AAAAAGNCCCGNCCNTTTTGGNCCCCCGGGGGGNAAAGNCCCANAAAAAGGNGGGGG
GAACCCAANGGAA

Sequence 4271

GGCCGCCGCCGTTTNAATTAANCCGGAACCTTTCCAAACTTTAATTTAAGGGGGGGGGCC
CGNAAAAATNTTGGGGGGNAAAGNCCNTTNCCCAACCCCCCGGCCGGGTGGTTTGGGN
GGCCCGGGNGGCCCCCCGGTAAGGTGGTTTAAACCAANCCAAATTTNTTTNTTAAAAA
AAATAANAATTAANCCTTTAAAAAAGGTTAANTTNCCCCCTTNCCNCCAATTTNTTAA

Table 1

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NAAAAAATTAAAAANGGNCCCAANTTTTTTTTTTTCTTTGGGGGGNCCCAACCTCCN
GGTTNGNAAAGGGGGGGAAACCNCCAATTGGGGGGGGGNAAAAAACGGTTTAANTTAAA
CCTTNGGTTTGGGTTTAANGNAAACCAAAACCCAANTTGGTAAAAACCAACCAATTTAA
TTNGGGAAAAANAACCAAAAATTNTTAAAAANGGNNGGGGGNCAAGGTTTGGGCCCAA
ANAAGGNCCCAAGGNAAAAANAACCAAAATTTATAAAAANGGGGTNGGGAAATTNC
NAAAATTTTTTCCAAAAACCCTTTGGCCCAGTGAAAAATTTCCAACCTTTGGCCCCCTT
AAAAAGGGGNTTTTTTTTGGGGGCCAAAATTTAANAATAAATAAAGGGGGTTTAAA
AAGGTTTGGTTTTTTNGGGAAACCTTAAATTAATTTTTTTTTTCCCTTTTTTTTTTGGGA
AATTGGCCCTTTTTTNTTGGGGGAAAGATNGGGGGTTGNTTTTTTTTTTTAATTNTNTTCC
AAATTTTNTCCTTNTTAAAANTNANTTANTTTTTTTTTTTTCCCANACGGGAAGGAAAA
AATTTTAATTCNTTTAAAATTCCCTAAGGGTTTTTTTAAATTTCTTAAAAANAANTCCTT
TTTTTTTGGGAAGGGAACCAATTTTTTCCCCTTTAATTTNCCCCCGGCCCTTNTTTCN
TTACCCCCCTTTTTTTTTT

Sequence 4272

CGGTAAATTAACCCGGAACCTTCCACCTTTATTAAGGGGGNCCGAAAATTTGGGGNAA
GNCCNTNCCCAACNCCGNGCGNGATGGGGNCCGNGACNCCGTCNCCCCGGGGNCCAGGG
GNTNACCCGNCCGGGGGGGAAAGGGGGCCAATTTGNAGGTGGGCCANGTCNCCAAGNCC
GNCCAGGNGGGGGGNCCCTTTACATTGNCNTGGNAGGNGGGGGGGNCAAGGNGACCGGGN
AGGNCNTTTTGAAGNGGAAAAAAACCCCGGCCAAGNAATTAANGNTNTNTTTTTTTNC
TTCTTTTNGNAAAAAAGGAATTAGGAAGGNAATTTTAAAATTAACCAAAACCTAACCTTT
TAAAAAATAAATAAATAANGNTTCCAAAATTNAGGGGGTTTAACCNTTAAAAAGAAA
TTANTTTTGGCTTTTTTAANGCCCGGGTTTAAAAAGGTTTTTTTTTTAAAACCGGGTTAAA
TTTTTTTTTNAATTAAGGCCTTTTTNAAGGGAATTTTTTTAAAAGGAAGGAAAAAAA
AATTAATTTGNAAAAANGNAACCTTTTTTAAAGNAAAANGNAAAGNTTAANGNCCNAATTG
GNANGGGGNAAAAGGGGGGAAAAAAAAGGGAATTAANAANAAGGGGGGTTTTTTTNCCTT
TAAAAAANAANCCAATTTGGNAACCCGGGGGGAAAGGGGGTTTTTGGGNAAGGGNAAATT
GGNAAAAGGCCCTTTTTTCCCTTTTTTCAATTTGGGGGAAAGGTTTAAAAAATAAATAA
AAATTTGGGTTTAATTTTTTTTNAAAAAAAAAGGNAAAGNAAAAANTTTTGGGNANGGTA
AAGGNAAAAAAGGGGGGAACCCNTTTAACCCAANGGAAAGGCCCCCCCCCCCGGAAAA
ATTTTTTAAAATTTAANCCCCCAAAAATTTAANGNAAAAAAGGGGGGGC

Sequence 4273

AAAATTTGGGGGAAAGGCCTTTNCTCCANCCCCCGNCGGGTGNTTGGGTGTCCGGGGGN
NCTNCGGTANCNCCGGGGGNGNCCCAAGGNGGGTTAANCCAAGGACCAATTTNTTAATA
TTAAGGGNCCCTTTGGGGGGNGGTGGTCTTATNTTCCAAAACNTTGGGCAANAANAACC
NCCCCCCCCAAGNNGGGGGGTNACGTACATTGTATTCATNAATTTNTGGGTNCCNCCCACAA
NTTNAATTGGGGGNTNTANGGGGNAAGGNTTNCANCCAANAAGNTAAGTTTNGTGGGGT
AANGTTAAGTAATTGGNGNCNCNAAAGGACCTTTCNTTACTTTGTCAAANTATGNGGAAA
NTTCCCNTNGAGNGCNAANANCNATNNTCACATTNGTANAANCNCCCATATATTTNAGG
NGTTTANCNTTTNTCNCACAATTTTCATATAAAGNNGGGGAAAAANAANAANAANAATT
CCNAAANATTNATTTTTTTAACNCCCCCCCCCAACNGNTAGGCCCTTTTAATTAAAANTNA
TTTNTAACCCAGGNTAGGGAAACCTTTCTCCANCCCCAATTTTCNCTTGNGTCAACCCCTT
GGGCNANAAAAAATAAANTTTCTCCTNTTGGNNGGGGAATTTTTTTNGGAAACCNTTAA
AAATTTAAACCCTTANAGAAAANGTCCTTTGGATCCTTTTTTTTACCTT

Sequence 4274

NCAACCCCCCGGCCCGGNGGTTTGGGGGGCCCGGGGGCCCCCGGNAAGGNGCTNAACCC
AACAAAAANAAGGGNTNATTTTAANTTGGGCCCCCCCAANGCNAAATTAATAATAAC
CCTTTTTTGGGCCCCANAAGGGTAAATTTTTTGGGGGTAAATTTCCCGCCAAGAGGCCAAAC
CTTTNAATTTTTTTTTTNTTGGCTTTANCACGGNNGGNCCTTTTTTTTTTGGTNTCNTCTTA
ATAAAAANGGNCCCTTNTTTTTTGGNCGGTGGCCCTTTGTCAANAATAAATTGGGTAAAAA
NATAAATTGGNNAACCCTTAANCCNANNAAGGGTTTTTTTTTGGGGGGGGATTCTNTANAA
ACCCCCACTATAAAGNGNTTAAATTTNTTTTTTTCTCTAAGGNAACCCNTTGNNGGGGCC
AAAANGGGTTTTTTNGNCCAAANTNAAATTTTTTGGNAATCTCNNGAAAAATCCAATGGA
AAAAAGTTNNTTTGNACCCCTTTGTACCCCCACCTTTTAAGGNCCANGNAAGTTTTTGG
NGGNTTTTAAAAAAAAGGNAAGGTTNCCAAAATCCTACCTTNGGGGCCTTTCCAACNAAN
TAGGCCCANNTTCCCGCCTTNGNGNAAAANGAAAAATAAGGTTNNTNCAANGGNTTTGGN
GGGTTGGGCCTTCTAAACCTTTCTTTCCAGGNTTCCNAATTTNCTAAGANAAATTTTT
GGCAATAAANAAGTANCCNACANGNANAACCTTTATTATNATAATTTNANTTTCCCGGNAN

Table 1

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NGANCCTTTGGTNAAAAAAGGGCCNCCCTTNGGGCCCAAATTTTTTAAAAATAAAAAANT
GGGGNCNNAAAAAANAAAAACCCTTTAATTTTTTCCCGNAAAAAATTNGGNTTG
GGGGGNCNTTTT

Sequence 4275

TAAATACGACTTCACTTTATTAGGGGGNCCGAAAATTGGGGNAGNCCTNCCCACNCGNC
GGGGNTGGGGNCCGGGACNCCGNAGGGNTNACCTNGGCNACCCCAACTTNCTTGGGGAAA
AAAAAAAATGGNCCCTTTTNCAAGGGGGTTNTNCCCNATTNCCCNATTCCCCCNCNA
AGGGGGCCAGGNCNAAGNCCAAAAATNCNCCNTNTNCGGTGGGTNCCGNTNCCTNCCCT
TACNTGGGGGCNCCAAAGGGGGCCAGGGCCAAAAAAGNAATTTTTTGGGAAAAAAGGT
CTTTTTTGGGGGCCTTCCGTAAGAAATTGGGGCCCCAAGGAAATCCCCCGGCCTTTAAG
GGGGAACCTTTTTTTNCCCTTGNTTTTTTGAAGGGCCTTCCCCAACCCTTGGGGGNC
AACCTTTTTTAAACCTTNAAAAAATTTTCCCCCNAAAAATNGGAAAGGCCNGCCCTT
GGGGGAATTNAACCTTTTNCCAAAGTTNCCCCAAATTGGGTTTTTCCCCCNTTGGGGGCC
TTTANGGCCCAAGGGCCCTTGGGTTTAAAAATTTTTTCCGGGAAATTTTAAAAATTTCCC
CCAAAGGGNAAGGGGGGGGGGTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTT
TTTTTTTCTTTTTTTNCCAAAGGGGGGTAAATTTTCCGGGGGGGGGCCCTTTTTTTTGG
GGGGTTTGGGCCCAATTTTTTTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTT
GGNAAAAATTTCCAAACCCGGGGGGGTTTTTTTCNTTTGGGAAACCCCCGGGCCCCC
AAAAACCCCTTGGGTTTTAAAGGCCCAAGGGGCCCGGAAATTTTNTTTTTTTTT
TCCCCNTTTTTTCCCCCCCCCGGGGGGGGAAAAAAGGNATTGGGCCCTTTTGGGGGGC
CCGGGGTTTGGGCCCTTTTTTC

Sequence 4276

CGGAACCTTTCCNAACCTTTTAANTTNAAAGGGGGGGGGGGCCCCGGGGAAAAAAATTT
TTGGGGGGGGNAAAAGGNCCCTTTACCCCCCAACCCCCCGGGACCCGGGGGGGATTT
GGGGGGGGCCCCGGGGGGGNACCCTCCCGGGGGGNCGCCCCCANAATTTNNTTNTCCAA
CGNTTGGCCNNCCCCCAAGNCCGGGGGGGNNAATTTNCCCTTAAAAATTTGGGATTTG
GGTNCCCNNTTNTNCCCTCCTTTCTTTNTCTTTGGGN

Sequence 4277

TANTTACGACTTCACCTTTATTNAAGGGGGGGGGCCCCGNAAAATTTNTGGGGNAAAGTCCTN
CCCCAACNCCGACGGGGNTTGGGNCCGGGNCNCCGTAAGGGNTNANCCANCNTTGGTNGN
CCCAAGTTAAATTNANAAANCCANAATACCTCTTTCNAAGTTGGGTAAAATTNAGGTCC
TTCCAAGNCTCCANAGGNTTNCNGGGNTTTTATANCCANATAATTAATAGGNGGGAAAA
TCNAAAACCAANCTAAAACCANATGGCCAGTCCATGTCTCCCTTGTGTAAAAGNNANGT
GGGGGTATGGGGTGGAAAAAAAATTCANGGTTTAATTTTCNCNGTAAGGGTTTNGCNT
TATCCAAAAAANTAACCTTTTTTTTCCTTNAAAAAATTTGGGCCCCCNNGTTTTTTT
TACCCAAANCCNCCCANAAAAAATTTCTNTTTGGNANGGGGCCNATTTNGCCCAAAAA
ATTTAAAAAAACCCATGGCNAANAAAAAANGTTTATTTTGGTACCAACCCAACCAACGT
NAAAAAANGGAAAANGGGGNGGAAAAAATANGGCCAANGNGGCCAATGCCTANGGG
NAAAAAATTTTGGGTTCCTTCTTTTNGNAANAGGGGGGGCCCCCANGTAATTTNGTTTCC
AANGNAAACCTTTTAANGGTTATGNGAACCATAATNGNGAACCAGGCCAAAANAAGGC
CAAGGCCCTTTAATTTTTTAATTAACAAAANTTAATTTTGGTTTTTTCCANAANAGGGAAA
ACCTTTAANAANAAGGGGGGCCTTTNGCAAAAATTTTNTCTTAAGGGCCCAACCTTT
CNTTGGGNGGGAAAAAAGGGGGGGGAAACCTTTAATAAANGGGGA
ATAAAAAATTTTCNAAATTTGGNCCTTTTTAAATAAAATTTAACCCCAANAAAAA
ATT

Sequence 4278

GTAAATAACCGGAACTTTCCAACCTTTATTAAAGGGGGGGCCCCGAAATTTNTGGGGNAA
GNCCTNCCCCACNCCGNCNGGGNTGGGGNCCGNGNCNCCGGNAAGNGNTNACCCAAANAN
AACCAGGTCNCAANGNGTCCANAGGGGNTTGNNGCCGNCCAACCAACCNCCTNGNTTAGG
NCNCCCCCAAGNTNTTAACCTTCAAAGGNGGGNTTCTTTTNGNAAGNGGTGGGNAAAG
TAAATNCTCCCTTCNAAAGNCCCCCAAGGNAAGNGGTTCCAAANGNGGCCTTGGC
CAAGNTTGAAGGCCCAATTGGAAATTTCAACCGNCCCCANTTGGCCCCAATTGNGGCC
AACCTTTCCAAGGCCCTTGGGGGGGCCAAAANGGAAACNNAGTTTGGAAAGGAAAC
CCCCCCTTTTNTTTTTAAAAAATTTAAAAAAGGGTTTAAAAAANTTTTTTTTAA
AAAAAATTTTNAAAAAAANAACCCAAGGGCCAAANGGGTTTGGNGNGGGNAAAAACCN
TTTCAAATCCAANTTTTTTCAAAAAAGGTTTTTAAANCTTTTTTNGTTTAAAGAAAAG
GCCNTTNANCCCCCAAGGNCCTTTGGCCTTTAAAAAGGNAAAAGCCCCAANGTTTGG

Table 1

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GTTTGGNAAATCCCCCTTTTTTGGGGGGGTTGNGNCCCTTTCCTTTTTTAAAGGGGGGAA
 AATCCCCAACCTTTTTTTTNGGGGGGTTNAAATTTCTTTTGGGCCTTTTCCAAATTTTTTT
 TTTTCCCCCNTTTTTTTTTTTTTTGGGTCCCNTTTAAACCCCCCCCCCTTTAAATTTAAAA
 AAAAGGGCCCCAANCCNAAAAAAAAAAATTTCCCCGAAAAGGTTTTTGGGGGGGGGGGT
 TTAATAAAAAAAAAAAAAANGTTTTAANTTTNGGAAAAAAAAAANCCCCCAAGGTCCNA
 AACNTTTGGG

Sequence 4279

TTACGACTTCACTTATAAGGGGGNCCGAAAATTTGGGGTAGNCCTACCCACNCCGNCCGG
 GNTGGGGNCCGNGACNCCGNCNCAATNCTTTTNGGGGGGTNCAAATCCCGNATTNGGAAA
 GNCCCTNCGGNCNCCCTTNGGTNGNCCCTTGGGGNTACCCCGGNCNTTTNGGTNGNAGG
 GGGGAAAAGGGGGGAACCAATTTTANGNAAAAAAAAATTTGGNAAAATTTGGGAATTGGTG
 GNTNTCCCCCTTTTTTAAAAAGGGGGGAATTTGTGGGGCNAGGNGGAAAAAAAAACCAAGNAATT
 CCCCTNGGTTTNGGTNGGGGAATTAATTTTTTTAAATTTTTTTGGGAAAACCCGNGGGGGA
 ATTTTTNACCAAAGGAATTTTTTTNGNAAAAAAAAATTTNGGAAAAGGTTTCCACCCAAAAAA
 GGNTTGGAAAGNCNAATTTTTTAACCCCAAAAATTTGGGAAAGGAAANGGGGAAAAAAAAAA
 NCCAANGGAAACCCGAAAAGGAAAAAAAAAAATTCCTTTTTTTGGGAAATTGGGGGGCCTTT
 TTTCNAACCNAAGGGGAAACCAATTTGGNCCCAANANCCCAAAAAAACCCAAAAAAA
 AAATTNGGGGGGAAAAATTTAAACCNCTTGGGTGGGGAAATTTGGGAAACCAATTTGGN
 AAGGGGGGGCCNAANGTCCCTCCAAAAAGGNCCCTTGGNGTGGGGGGAAAGGGGGGNAA
 AGGGAAAATTTANAAACCCCCCAACCCGNGGNGGNGGNGNCCCAAGNNAAGGGGGGG
 GGTTTCCCGGGGGGGGAAAAATTTTACNTTTGGGGGGCCCCCCTTTGGGCNTTTGGGC
 CNCCNTTAAAAAAAAACCTTTGGGTNGGGCCCGGTTTTTTCCAAATTTAAAAACCCCA
 AAAAAAATTNCCAATTTTTTTTCCCAATTTNAATTTTTTTTCCTTTAAAAACCCCCC
 CNTTCAAAAAAAAAAACAA

Sequence 4280

ATTACGACTTCACTTTATTNAGGGGGCCCGNAAATNTGGGGGAAGGCCNTTCNCAACCCC
 GNCGGGGNTGGGGNCCGGGNCCTCCGCCCCAATNCTTTTGGGGGGNTNCAAATTCGGGAA
 TTGGAAAGNCCCTNCGGNCCCCCTTGGTTGGNCCCTTGGGGGTACCCCCGNCCTTTTNG
 NTGGNAGGGGGGGGAAAAGGGGNANCCAATTTTANGTAAAAAAAAATNGNAAAATTTGGG
 AATNGNTNGNTNCCCNCTTNAAAAAGGGGGAATTTGGGGGGGCCANGGGGAAAAAAAAAAC
 CAAGGNAATTTCCCTNGGTNTNGGTGGGGGAAATTAATTTTTTGGGTTTTTTTGGNAAAC
 CCGGGGGGAAATTTTTTAACCCAAGNGAAATTTTTTTTGAATAAATTTGGGGAAAANGT
 TTCCACCCAAAAAAGGGTTTGGGAAGGCCCAATTTTTAANCCCCAAAAANTTTGNAAAG
 GAAAANGGGGGGAAAAAAAAAANCCCAANGGAAACCCGNAAANGGAAAAAAAAAAAAAATT
 TCCNTTTTTTNGGGNAATTTGGGGGGGNCCCTTTTTTTTCCAAACCCNAAAAANGGGGAA
 AACCCCAATTTTNGGGCCCCCAAAAAACCCCAAAAAANAAANCCCAANAAAAAAA
 AAAATTTTGGGGGGGGGAAAAAAAAAATTTTAAACCCCNCTTTNGGGGTTTTTGGGGGAAA
 ATTTTGGGGGAAAACCCCAAAATTTTGGGGGAAAAGGGGGGGGGGGCCCCNAAAGGNGG
 CCCCCCCCCNAAAAAAGGGGCCCTTTTGGGGGGGGGGGGGGGGGGGNAAAAAGGGGGG
 GGGGAAAAGGGGNAAAAATTTTTTAAAAAAACCCCNCCCCAAAACCCCGGGGGGGG
 GGGGGGGGGGCCCCCNAAAAGGGNTAAAAAGGGGGGGGGGGGGGNTTTTTCCCAAAANG
 GGGGGGGGNAAAAAANTTT

Sequence 4281

CAACTTTATTTAGGGNNGNNGCCCGGAAAANTTTGGGGNAAAGNCCCTTCCCCAACCCG
 GCCGGGGGTGGGGGCCCGGGGCCNCCGNCCCCATTGCTTTTNGGGGGGGGTNCAAATTC
 CCGNATTNGAAAAGGCCCTTACGNCCCCCCTGGTTCGTCCCCCTTGCCTNCACACCG
 GCTTTTTGGTNGGAAGGGGGGGTAAAGGTGGGAACCAATTTTATNGNAAAAAANTCGGN
 AAAATTTTGGGAACCTGGTNGGTATTCCCTTGTTAAAAATATGGGTAAATTGGGGGGGCCT
 AGNGTAATAAAAAANCCAAGAAAATACNCCTTGGGTTTTGGTTGGGGGGAATTAANTTT
 TTTAAATATTTTGGGAAAACCCGGGGNGGAAATTTTNANNCCAGGNAATTTTTTTGGG
 AAAAAAATGGGGAAAAANTTTTCNTCCCTAAAAAAGGNTNGGGAAGGGCCCATNTTTT
 AACCCCNAAAATTTGGAAAAGAAAGGGGGGAAAAAAAAAACCAAGTAACCCTTTAAGGAA
 AAAAAAATTCCTTTTTTGGAAATTNGGGGGCTTTTTTCCCAACCAAAAAGGAAATCAA
 TTTNNCCCCAANNACCCCAAAANAACCCAAAAAATAATTTNGNGGGAAAAAATTA
 ACCTTTTGGGTGGNGAAATTTGGCNAAACCCAANTTGNAAAAGGGGGGGNCCNAAAGN
 CCCNCCCCAAAAANGTCCCNCTTTGGGGGGGGGGGGGGGGGGGNAAGGNGGGGGGNA
 AAGGNA
 AAATTTNAAAAANCCCCCCNACCCCGGGNNGGGGGGGGGGGGGGGGGGGCCCCAAAAAACNA

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGGATG
ACCGGAATGGAGACTTCTCAGAGAATAGAGACTGTGACAAGCTGGAAGATTTGGAGGACA

Table 1

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ACAGCACACCTGAACCAAAGGAAAATGGGGAGGAAGGCTGTCATCAAAATGGTCTTGCCC
TCCCTGTAGTGGAAGAAGGGGAGGTTCTCTCACACTCTCTAGAAGCAGAGCACAGGTTAT
TGAAAGCTATGGGTGGCAGGAATATCCTGAAAATGATGAGAATTGCCTTCCCCTCACAG
AGGATGAGCTCAAAGAGTTCCACATGAAGACAGAGCAGCTGAGAAGAAAATGGGCTTTGG
GAAAGAATGGCCTTNTTGCCAGAGCCCCGCCAGTTCAGGTCTGTTCTCCCCTTGGGAGAA
AGCCACTTTGCAAAAGC

Sequence 4287

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTGAAGAAACAAGGAGGCACTTCCTGTAGG
AGCACTGATGTGCCTTGTCACACTCCCCTCTGAGCTTTACTGGTAAGAGAGCTCCGACT
GAACATGCTGAGCAGTTGAGCACTTTTCCATCAGCAACAACAGCGAGGGATGGAAATGGA
AAGGAACCGAACTAAAACGCATTTCCCTTTGCAGGGCAGAGAGCTAAGCTCTTAGGAATA
GTGTTATAGAAATAAGCACCCCTAACTTCAATTCCTGAAAATGTTGGTTAATGGAGAGAAT
TTTTGGAGTTTCACTTAATATTTTCCCATCGGTGCGCATAAATAAGTCTTCAGGGCGCCT
CCTAGAAAGAAGTCCCAGCCCCAAGGGCTCGATTAAGGGACCCACACT

Sequence 4288

CGAATTGTTTCTCCCCGCGGTGNCGGCCGAGGTACTATTCACGNCATTAAAAAGAATGTG
ATCCTGTCATTTTNTACATAGATGGAAGTGTAAAGTACTAAGTGAATAAGCCAGGCACA
GAAAGACAAATTTTGCATGTTCTCACTTATTTGTGAAAGCCAAAAATTAAACAACCTGAA
CCTCATGGGAGATACAGAGTAGAATGATGGTTACCACAGAGTAGAATGATGGTTACCAAA
GGCTGGGAAGGGTAATGGTGGGGAGAAGAAGTTGGAATGATTAATTGGTACCCCGAATAC
CAGGCACACAAGGNAGGCGAAANACCACCGAACACCACCTTTGAGCCAGGCCACCCAGC
CAATGGGGCGCCNTNTTCCAGGNGCCNCTCCCCTTCTGGCCCTTCCCGCGT

Sequence 4289

ACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCACACCCAGCT
AATTTTTTTGTATTTTAAGTAGAGATGGGGTTTACCATGTTGGCTAGGCTGGTCTCGAAC
TACTGACCTCAGGTGATCCACCTGCCTCATCCTCCCAAAGTGCTGGGATTACAGGCTGAG
CCACCACGCCCAGCCAAGTCTGTTAATCATTTTAGAATCTAAGCTCCCACACTGATAGG
GAGAAAAGGCATAAAGGAGGAGTTAGTGTTGACATGTGTCAAATGCTGGTAAGTCAAGAC
TTTTGGTAAGAGGAACAGACCATTGGATTAAACAACATGGGAAGTTACTGGTGACTTTTG
ACTAGGAGCTGTTTTTGTATGGGGATTGATGGGATGCA

Sequence 4290

ATNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTACAATAA
TCCTCAAGATACTGAAAGTAATGCCAAGTGAAGACCAAGGGGGTGGGTGGAGGGCTAAT
GGGCTGGACGAAATAGCCACTTGATTGCTAGTTCATACAAGATGTGGCAGCAACTCCTTT
TCTGGCTGGGAGATCTTGGATGTCACATCTTAGAATCAGGTGGCAAAGCATCTGTGAAGG
GCAATGTGGCATCCCAGACAGTGGGTGGTGAGATCAGGAAGAAAAAATGGAAATCAACAG
ATGGTGGATCCTACAGCTGAGAACTGATTCTTCAATTTGACCGTGGTTGGCATAAACATT
TTAAATGGAGCTTGGTAAAGATCAGGTTTATTTTTGCCATTGGACCAAGCTCTTGGCTTC
TAAAAAGGGCCCTAAATTTTTTGT

Sequence 4291

CCGGGCAGGTACCCCTCCAAGCCGGACAACCCGGGCGAGGACGCACCAGCGGAGGACATG
GCCAGATACTACTCGGCGCTGCGACACTACATCAACCTCATCACCAGGCAGAGATATGGA
AAACGATCCAGCCCAGAGACAACTGGATTTTCAANACCTNTTGGNTGTAGNAGAAAGT
CACAANTAAATAAGTGTTTCCCAGNAACTTCNNGGCTTTTGNAAGTACCCCTGNCAAAT
GTTGNNGGTGGAATGGGGAAANATGAAGTACNTTGCNTTCTNCTGNCCCTTTTCACTT
ATATTTACAGGCNCCATTATTTTGCAATCCGGNGGTAAAAAACGNAGGANATTCCCACC
CTATCACTAACCCAAATGCCATTGTCAGGCCCCACCTGGTGGCCTGGAAATNTCNTGCC
AAATTGGTTTTTTTCCNCTTTTGGTACAATTNCATTTGGATAATAATTAATGNNGGNT
GGTNTTTTAAAAAATNAAAAAGNTTAATTCCAATTTGNCCAATTATCCCAANTAAAAAN
AAAA

Sequence 4292

CGCGGTGGCTGGCCGCCCGGGCAGGTACATAGGCCTTCCTCTGTANGAGAGGGCTTCTGA
TATCTTATTCTTTCTTATGGCGGAAGAGGGTGTTGAGAGGGGTCCCTTG

Sequence 4293

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAATTGCTGGAACCTGGGAGGCGGAGGTTG
CAGTGAACCAAGATTGCACCACTGCACTCCAGCCGGGGTGACAGAGTGAGACTCCGACTG
AAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATATNTTGGANTGGTGAAGGGAAT

Table 1

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GGGTNTAGAATTGGAGAGATTATCTTACTGAACACCTGTAGTCCCAGCTTTCTCTGGAAG
TGGTCGTATTTTGAGCAGGNATGTGCACAAGGCAATTTGAAATGCCCATTAATTAGTTTCT
TCAAGCCTTTGAATACACTNTTAACTCACTGGCTNAANGAGGGAAAATTTTAAAGAANGG
AAGCCTACTTAAANATCTTAAATTTGGAAAAAACTTCCAAAANGCNNTTTTAAACCTNT
AAAAAAGNTTTTAAAT

Sequence 4294

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCGGGA
CCACCAAAGGGCCATGAACCTTTTGTCAAGTCCCAAGGTCCCATAGAGAGCAGATG
GCCACTTTAATGTCACCTCAAGCCCTTAGGCTGTTTTTAGACATCCATCTCCTTAGTGGA
TGCTTTTTATAGACCCCCATCCAAGACCTCACACATCTTGTAATTAAATTTTCATCTGGTA
GTATTTTGACTTTTTTTCCAGCCTGTCAACACCTTCTGTGTTCTTACTTGTTGTATCTCA
AATATTTGATACCCTTTTCAGTGTTGTATTAATCTAAAATTTGTTGTTTGTGTTTATGTT
TTCATGAAGTTACTGTTAAAAAATATAGGAAGAAGAGAAGGTTAAGATTTGAGCCCTTCA
GTGTATAGTTGAGCTTGTCTTGGAAGACA

Sequence 4295

CCGCGGTGGCGGCCGCCCGGGCAGGTACGATCTTGGCTCACTGCAACCTCTCCCTCCCGG
GTTCAAGTGATTCTCGTGCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGCGTGCCACT
GTGTCCGGCTAATTTTTGTATTTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG
ATCTCAAACCTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTA
CAAGGCGTGAGCCACCACNCTTAANGCCTACAAGCANTTTTTTAAAAACTGNCCNTTAC
TANTGANAAAAATTTNTTNTNTTAAAAAAACCCNTTATTNNCCTATTTTAAAAANAANA
AATNTTATTTTTTTTT

Sequence 4296

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTCTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTAAANTTANAAANNAANAATCT
TTTATNAAAAANANAATNNTNNAATNAAAAANGGGAAAAAATTNNAAAAANAANNA
GGGGCTAAANNATGGNANGAAGGGGNAATTTNNTTAAAAANAANAAAAAANGGGNNAA
AAAAAAGGN

Sequence 4297

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGTAATCTCAGT
TACTTGGGAGGCTGAGGCAGAACTGCTTGATCCCGGGAAGTGGAGGTGTCAGTGAGCCAA
GGTCGCACCACTGAACCTTAGCCTGGGCAACAGAGTGAGACTCAGTCTCAAAAAATTAAA
AATTNGAACGACTGACAGGCCATCTTCCAATGTTCTGATCTCCCCTGACTCTGTGGGTC
CAACAGGACCATTCTGAGCAGGTNGCATTTCTGGGCCTGGACAAGTTTGACTGG

Sequence 4298

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTAACAGGACATCA
ATAAATATTAGTTGAATGGAAGATTAAATCAACAAAATGGGTGATGGATCTCTGCAGCAA
GTGGAAGAGTTCTTCATGGCCCCCAAGGTTATATCCATCTAGAACTTCAGCACGTAATTT
CATCTGGAAATAGTGCCTTTGCGGATATAAGTTAGGTAAACTGAAGATGAGATCATACT
GGATTAGGATGGGATCTAAATCCAATGAAAATGTCTTCATAAAAAACAGGAAGAACCCA
TAGAAACACAAGGAAGAAGGTCATGTGAAGATGGAGGCAGAGATTGGAGGGATGCAGCCA
CCGGCCCAGGAATGCCAGCAGCCACCCAGAAGCTGGAAGGAAATGAGGGATTCTCTCCTA
GAACCTTTAGAGAGAACATGGTCCTGTGAA

Sequence 4299

CCGCGGTGGCGGCCGAGGTACTCAGTCTTTGCTTAAATAAATTTTACGTTTATCAAAGT
AAAATTTACCAGCTTTTTTCTTAAAGAGGCTAGTCATATCTCATCAGTGGTTACAAAGT
ATCCTTACAATTGAACCTACATTTGTTAATCCTGTTTCAAGTGTGTATGAAAATCACTTGGT
GGCCGGGCATGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGA
TCACAAGGTCAGGAGTTTCGAGACCAGCCTGGCTAATATAGTGAAACCCCATTTCTACTAA
AAATGCAAACATTAGTCAGGCATGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGAGGC
TGAGGCAGGAGACTCTCTTCAACCCGTGAGGCAGAGGTTTGCAGTGAGTCGAGATCATGT

Sequence 4300

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGTCTTTGGGTGGGGTATGTAATAANAAAA
AGCCTGCAGGCTTCTGAGGTAGGTAGTGGGTGGAGGCAGGTGTCTCACCCACTAAAGT
GAGGACTGCNACAGTCCGGCCTCTGTGCCCTCCTTGNAATGGAATGGGGAGTGGCTACC
ATACAGCCTCAAGAGCATGCTGTTACCAAGACCCTTGCNCCCTNAAAAAATGCCTTAN

Table 1

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TTANGATAGCAGGCACATTT

Sequence 4310

TTGAGTAGCTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTGTAGT
ANGAGATGGGGTTTCACCATGTTGGCCAGACTGATCTCAAACCTCCTGACCTNATGTGGTC
CACCCGCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTA
CAAGCAATTTTTTAAAACTGACACCTATTACTGATAAAATTCTGNTGTTTAAATCCTA
TTTACTATTTTAAAGATAACGTATTAGNTTTTTTTTAAATAACAAATAATTCTGTATTG
ATAAAATTTTAAG

Sequence 4311

TCACTTTAGGGCGAAACGAGCCCCACCGCGGNGGCGGCCGAGGTTNNTTTNNGGGGTNNN
AANACCCGGCCCCCNCNACGGAACTNGCNCTGACACCCAGGCNNNAGGGCAANGGGGCG
GGCCCAGCCNACTGAAACCCCGCCNCCGGGGGNCGAGAANCNCCNGCCCCAGCCCCCA
NNTNGCGGGGACAACAGGNTCCACCACACACCCGGGNAANNNNGGANNNNNAGNA
AAGACGGGGNACACCANGNGGCCAGGCGGGNCNCGAACCCCNACCCCGGGAACCACCCA
CCNNGGGC

Sequence 4312

ATAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCNATCTCCTGACCTNTTGA
TCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGNGAGCCACCCATCCGGCCT
AACGAGACTTATTTTTACTCAACTAGATGGCGTTCATTCATTTGCTTACTCAGCTGTGCC
AGGAATTAANTTGGGCACTGGGAATTCCAAAACCAACAAGACATTCTCTGTCATCAGGGA
ACTCACAGCCTANTTTGAGAGATAAACAAATGAACATGAAATTATANTTCAGGTAACAAA
GAATGAGTTGTTATTGGCAAGAGGGAATGTGTTAAGAGCTTGGCAGGGG

Sequence 4313

CCGCGGTGGCGGCCGAGGTACCCACCTCAGGGACACGAACTCCACACTATAGTGGGAAAG
CTTNAGGGACCCCTCCTTTTAGTGCTCAGGGCTCACCTATGCTACTGGTCCTTTTGGCAA
AAAAGGAAATGATAGAGCCAGGGTTGCCCTGATGTANCANCTTACTGTGGAGGGGCC
AAAGCTGGTGTTCAGAGCTCACCCAANGAGGGAGGTGATAAGGTGTCATGCGTTCTGNTG
AACCCACTGGCTGGTATGAACATGAGGCTTGGGGTGAGGGAAACCAAGTANGGGGTTGGA
GAAGGAGCATCACCTTTGTAACACCTGGCTTNCCCATTAGCTNGCTTTTTTGCCC

Sequence 4314

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGATCTCTGCTTAATTCATTTGAATG
TTCTTCTGTAGTATTCATACATAATTTATGTTATCATTTTCCTGTTGAAGAATAGGTAGG
TGTTTTCCAGTTCTTCAGTATTGCAAACACCACTACATTGAACATCTTTGTATCCATGTG
CAAATATTCCCGCAACATACTGTGCTAGCTGTTCCGGCCACATCACCTTTATGAAATTCTC
ACAGGAACCTGTGAAGGCTATAGGTAATTTGCCACATTCCACAGATGAGAAAAAGGCTAA
GAGAGCTTACATGTCTTGCCCTGAGGTCTCACAACCTATAAATGACGGAGCCTAATTGGAA
GTAAAGATCTG

Sequence 4315

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTTACCCA
ATTGCTCTTTCCTGTTTGTGTTTTTTGTTGTTGTTGTTGATGTTTGGCCACTTTACACAA
CTCACCTCCAAACACACACTGCATCATCAAGGGAGTTGGGTCAGAGCGACATTGGGACAC
TCACTCTGCTGTGACCTAATAAGNGTGATGGTGCTATACTTCAGACGCANGGAATAACTT
CCATTTTGGTTCATGCCTTCACTTCCAGCTGGTTGAATATAAACTCAATCACAACATCAT
CTTCAAACCCAAGGATATCCGTTACTCTTT

Sequence 4316

TNNGGCGAATTGGAGCTCCACTCGCGGTGGCGGCTCGAGGTACGGTGGCTCTATCTTGGC
TCACTGCGAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTGCCGAGTGGC
ATGGGACTGCAGGCGCCCGCCACCACACCCGGCTAATTTTTTTGTATTTTGTAGTANAGAC
GGGGTTTTACCCCTTGTTTGGCCAGNATGNGTCTCNGATACTCCTGAACCCCTTCNTTGAA
TANCAACACTGCNCTCTGTGCTCTTCCTCTAAAAGATGCTTGCGTAAATTTAACCANGNG
NCNGNTGTAGACTCAACTCCGNTGTCCCCCTGGNACCCTTAAGNAATNTGGAATTANTTT
NCTTATAAACGTCCAAAATTAAATAAATGGTTTTTAAACCGTAGNGGNTATNNGNTNNCC
CTAATTTNTTGGCCCCAATTAAT

Sequence 4317

AGGTACTTTTTTTTTTTTTTTTTTTTGAATTTGCTTTTATTTACACGTTTGAGTCAAT
TACATGCATGTTTTATTTTTGAGGAGTGATTAGCAAAATGCATTAAATTTTAAATAGC
AATTAAATNTACAAAATATAGCTTACAAAAAANCTGCGAAATGTTTAAAAAATATTC

Table 1

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TGCCTGCAAAAATTTTATAGGTGGTNACAAAAGGACGTNTTATNAAANACCCTGGAGGGTT
TNAGCAATTTTCATAAAACCCTTTTTTTTTTGGAGNGGAAGTTTACCATCAAATACCCTAGN
TGCAGNGAAAACCCCGTAGTGGTCCAAANACTTANCAAGTACCGANAAAAAAGTNTCTC
CNCGGTTTCCNCTGGGNCTAATTGTATTGGTNCACGAAANTACCCAAGTAGGGGNCGNAT
TAGNTTTACCCCAGGCTANCCACCTTCTTANTGAAAGGACCCAGGCNTGGTCAACCCAAG
AAAGGGGGAG

Sequence 4318

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTAGCTAGGTGTTTTCTACAGTATCTTATATA
ATTGCATCTTACAGCATCTTTACATGCGAAATAGTTTATCAGTTATCTTCAATTGCATAT
TACAAAATTCTGATTAAATTTTTCTTAAATAAGAAAACATCATTTTCATATGACAAGAAA
TCCTAATTTAATGTTACTCCAAGGTTGGTTAATTCAAGTGGCTCAGTGATAACACCAAAG
ACTCAGTTTCTTGAAATTTTTTGTCTCTGCCATCCTCCATGTTTATCCTCACGCCAGTTT
CGCCTCATGGTCCCGATATGGCTACTGTAATTCTGGGAAGGAAATGCTGGACAGAACCGT
GTCTGGCCAAANAAGANGCCNGATTTTTTNTTNGTGGTCCCTTTCTAAAAGGCNAAGGGG
AAAGTTCT

Sequence 4319

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACAAATGCAGTAG
CCAGCAAGATTACCATGCAATCATTAAGGAGAACCAGTAAGAGAGCCACTCAAACCAG
ATTTTGAACGCTACTAAAATTAAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGG
ATTCTTTGTAATAAGTGATACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTTAGTCT
ACAGATTATGGCAAATTCAGTGACAACAATCAAATGGTCTAAGATTGACAGTAGCACAGT
TTTACTCTGTGAAGGTAGTGTTTCAAGAAAACCTAGAAAACCATTCTTTA
CAGCTGAAATCTTTCCCTAACCATTTGTTATTTCCACTTTTAAGTCTCAAGAGATGAGAA
AAGGGAGGTAAGGCTTCCCTTATACATTTCCCTGCACAATGAAACATTT

Sequence 4320

CCGCGGTGGCGGCCCGCCGGGCAGGTACCCAGAAAACCAAATGAGCTTAAACATTTTGA
AAGATGTCAACAAAGTTATGCCCTTGGAATAAGTTTGGTTTATGTAAGAGCATTGTTCC
TTTAATGTAAAGACACAATAAGTTTGGCTCGCATTTGTAAGTTTGAATCTCATTTAGG
TTTTGTAAATCCAGAGTAGAAGATATGCAGGAAAAGATTCTGATGCATTTGGTGGATATGG
GAGATCATGCCTCCATATCAAGCGTGACAAAACCTTACTGGAGTTAAATACCATAGATG
TGTTAAACCCAGCAGCCCTAAATCACAGCTCAATGACCTACAAAAAATTTGTGCAGGAGG
GAAACCACATGAATGCAGTGTGTGCGGGAGAAGCCTTCTCCAGGAAAGCACA

Sequence 4321

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACATTA
CTCATGAATGGTTTAGCACCATCCCCTTGGTGATAAGTGAGTTCTTACTCTGAGTTCACA
CAAGATCTAGTTGTTTAAAGAACCGTGGCACCTCCTCCCTCTGTGTCATGGGAGGAACC
CAGTTGGAGGTAGCTGAGTAATGGGGGCAGTTATCCCCATGCTGTTCCCTGTGATAGTGAA
TGAAGTTCTCATGATATCTTGATGGTTTTATAAAGGGGCATTTCCCCCTTTGCTTGGCAC
TTCTCCTTCCCTGCTGTCATGTAAAGAAGAATGTGTTTTGCTTCCCCTTGTCATCATAATTG
TAAGTTTCCCTGAGGCCTCCCCAGCCATTGCTGAACTGTGAGTCAATTAAACCTCTTTTTC
CTTTATAAAATTACCCCAAGTATTTTCAAGGCCAGTTCTTTAT

Sequence 4322

CACCGCGGTGGCGGCCGAGGTACAATTCAGTGGCCTAAGTAAATTCACAGTGTTGACGCA
NCCATCACTACTCTNCATCTCTAGAATCCTAAACAGAACTCTATACCCATTTAAACAAC
TCCCCATCCCTCCTCTCCCCAAGCCCTGGGTAAAGCTTTTTGTAAACACTTATTTGTCTT
CTATATATTTGCCTATTATTAGGCACCTTTTATANTAAAAATGGGAA

Sequence 4323

GCTCCCCGCGGTGGCGGCCGNCNNGCCCGNACTTTGCANNATGATGCACCCTTGCACAN
AAATGCTTTTCTTTANATCCCTTCANACAGAAATTGTGGTCAAACCATTTGAGATGGAAG
TCCTGCAGGTGTTTTCCAAGCTCCACTGGCTTTCTCAGGTGCAATGCAGTGCCTTGCAC
GGGGCAACTTCTCCTGTAGGAATCAGGGTTTCATCCACAGGCAAATAAGTATCCGCTTCT
ATGGTTGACTTCATGGTCATTTATATTTGGGGAAGCCTGGCCTGCCAGGTGGAAGTAANA
ATGGTTGGTCAGGTGACTGGTGTGGCCTGACT

Sequence 4324

CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCT
TGGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAG
TAGTGGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTAGAGA

Table 1

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CAAGGTTTCACCATGTTGCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATCTGCCCCA
CCTTGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCA
ACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAAGAAACTCCATCACCGTGGG
TGCTCTCTTTCCTTGATGTGTTTGTGCCCAAATAGCTTGTCTCATCAGAATGACTTATT
TTGCTATGATATATATACT

Sequence 4325

ATCACTNCTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCATGTTGGTT
GGTAGTATTTTAAATCTGAAGCATTTTCAGAGTCTAAGGCAATTCAGACTGCACAGCTGT
CAACTCAGGAGTCCCATTAAGTACTCTAAAAATTCCTAAAAGAAGGCATGATTTATTA
TAAGCAAATGGCTAACCTGGCTTTTTTTGGTAATAGAATTTTAAATGAAAATAAAATTATA
CAAGATACACATTGTTTGGATTTTTTAAAACTCTATTAAATGTTTAAAGTGGTTGTGAATA
TGAGGAATAATTAAATGTTAACCCAGCTGATTAGTGAACATATAAGAAAATGGGGGGAA
CTGATCCCAAAAGATCTTCTCTTCTAAGGAGAACTTCACTTGAGGGGCAAACACTAGAAG
ATACAATTGTTATTGTAAAAC

Sequence 4326

TCACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACCTGNAANATG
CATGAGGTGTTTGTGAGCTGCATCANTNTTGCATCATTNNGCATCTNTCGAACAATNGCCT
TTGGGATCCATNGNGANGACNTCTGTCTTTATTGGAGGAAAGATAANTCCTTGANCAACT
CCGNTTTTATTATTCTCATGTCTGACNATNCATNNGTGTCTTTGTCCANNGACTTTTCT
GGCACCGNGNACCACCTAAATTATCATGTACTGTGTCTGAATAGNCTTCAATGGGCGTTCC
CCTCCTGGGA

Sequence 4327

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCTTGGC
TCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAGTAGT
GGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTAGAGACAAG
GTTTCACCATGTTGCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATCTGCCACCTT
GGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCAACTT
TAGAGTCAACATCTCTTATCACTTGGAAGCTTTNTGGGAAGAAACTCCCATCAACGTGG
GTGGCTTCTCTTTTTCCTGANTGNTGTNTGGGGGCC

Sequence 4328

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAATTCATTC
AAGAAGAAATAGATACCAGCCTGAGCAACATGGCAAAATCCCATCTCTACAAAACATCAA
AAAAAAAAAAAAAATTAGTCGGGCATGGTGGTGCACACCTGTAATCCCAGCTTGTGAGGAG
GCTGAAGTGGGAGGATCACCTGAGCCCAGGGAGGTCAAGGATGCAGTGAGCCATGGTCTC
ACCACTGCACTCTAGCCTGGGTGACAGGAATGAGACCCCGTCTCAAAAAAAAAAGAAGAAG
TAGATAATCTGAATAGCCCTATATCTATAGAACTTAATAGTGCTGGGAGATATAGGTAT
TATTATCCTCATTTTACAGATGTGAAAATTGAGGGCCTCAGAGAAGTAAAAGTCTATTGC
TTCAAGGTCAT

Sequence 4329

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGAAAGATTTTACTGTG
AATAGTTGACGAAAATTGGTTAAGTCCATTAAGACATGCTTCCTGCCCCCTCACAACCTCAC
CCACGCTGTTCTAGTCTCTCCGTAAAGTGTCAATTCTGAAGGTCACAACCTCCATAACTTC
CATATCTTCTCAGTATTACATTTCAAGATGAATATATTGTGCTTTACTCTGGCAACATGT
CTTCCATAAGATGAGAATACACATCATAATGTAGAATCCGTGGAACTCTGAGCTTATTT
TTCTGCAACTAGATGGTCTCATCTGGGGGGCAAAGTGAGACAGTGACAGATCATCAGGCA
TTAAGTTTCTCATATTGAAAGNCACACAACCTAGAA

Sequence 4330

AGGTACAGCCATCCTTGTCTTCAAGCACTTTGAGAACATTTTAGCCATTGATGTTTACAT
GTGGCACCCACCCATGCAAGATAGGTTTCTGTATTTATACATTAAAATACCAAAAAAAAA
AGTATGAAATGCCTTCAAAAATGTTCAAAGCTTGAGAGAAAAGCTTTTTTCATTAGTCAA
GGTGTTTTGATATGGTATTAAATAATATCTAACAAAATGAAAAAAAAAATTCTCTTTTCT
CCATGAATGCTGACACTGGGGAGAATGGCAATTTTAGGCTGTCAAGAGCATACTAAATAA
GTAAAATATCTAGGAAATGCAATCCGACTTGCCACGGGATTATGAAAAATTACTGGCTTT
CAGTCACTTTTTGGCTTNTTTTCATACTGGCCAGAAA

Sequence 4331

TATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACGATCTTGGCTC
ACTGCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTG

Table 1

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GGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTAGTANAGATGGGGT
TTCACCATGTTGGCCAGGCTGATCTCAAACCTCCTGACCTCATGTGGTCCACCCACCTTGG
CCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCGCGCTCAGCCTACAAGCAATTTT
TTTAAAAAACTGGCACCTATTANTGATAAAATTCTCTGTTTAAANAATCCTATTTAACTAT
TTTTTAAAGATAAAGCTATTTANGTTTTTTTTTTTTTAAAAATA

Sequence 4332

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAGAATTGTGTATGGAAGG
AGGAGTAGCAATGACTAGATTTAAACCTAGAAATACAAGCAGGAACCTGGCTGTAAAAGG
CTACACTTTTATCTAAGAGACAGTGAGATATTAAGATGTAGAGTGTATCTGTTTGTAAGG
GTTTAAACAGGTGAGAGTTTATCTCATGTAATAGGAAGTCCAGGACATTGGAAAAGGAAG
TGGCGTAAGCAGTCCAAAGCTCTAAGCAGCTCAACAATGTCGTCATCGACCCAAGCTCTT
TCTCTCTTTCTACTTCATCATCCTTAGCATGTAGCTTTTATTGTCTTTGTCATAAAATGG
CTGCTACATTGCCATTGACTCAAGTTTTTCATTCCAGGCAGGAAGANGGAGAGAGAACAAA
GGGTAA

Sequence 4333

CTATAGGGCGATTGGAGCTCCCCGCGGGGGCCGGCCGGGNNCCCCCTCTAAGCCACTA
GTAATCAAGTGTTTTAAAAAGTAGTTAAAAAAGGGGAAAGCTCAAATTAACAT
AATCAAAATGTTTTTAAATAAATCTATGTAATGAGAGGTGACCAGCAAGCCTGTATCTA
TGCCAGAGTGTGGTAGAAGAGAAGAAGGCACTCTCACTGAATTTTATAAGTATACTGAAG
TCACCTAACCTCTTAGTAGACATGGCTCTTGCCAAAGAATACCACGGAAAGAGCTCTTCT
CTTCCATGACATCCTCACCATATCCTGTTCTTAGGTCACTGCCAACCAATAAAGCAAAGC
TCCAGCAAGTTGACAAAAAGAAAGGGGGAGGTCTGGGGGAAAAGGGGAGGAGACGAAGG
GACAAGAGCNGA

Sequence 4334

CCGCGGGTGGNCGGGCCGAGGGNCTTNATNAGGTATACCATGCTGGTATAAAGAGATTC
TTGCCTCCAAAGGGACTCAGAATATTTACAGGGAACCTGTATTAGTCCATTTTACACTGT
TGTAAGAGACTACCCACACTGGGTAATTTACAAAGGGAAGGTGTTTAATTAATTCACA
GTTCTGCATCGCTGGGGAGGCCTCAGGAACTTACAGTCATGGTGGAAGGCAAGACAGAA
GCAGGCACCTTTTTTACAAAGGTGGCAGGAGAGAGAAGTGAGTGCCCNGAANAAAAAAA
AAAAACCCACCTACTCTTAAACCATCAGATCTCCTAAGAAATTCCTCACTATCATGAG
GATAACATGAAGTAACTTNTTCGACACATGGCCGATTACAGGTCCCTCTGT

Sequence 4335

CCGGGCAGGTACNCNNTGCTCANANGTCCCAGNACCCGATGGNATGACCTTTGNCCTGAN
NTTGNATNGACTCCNTTTACGNGCTTCTCTTCCCCTCAGGANNCCTCTATCCCATATGGG
CCANTCCANGGATGGTGAGGGGGGCTATAGCCCGATTGGAAATGGGNNCTGATGAATATG
AANAGATGGAAGANAGGATGAGGAGGAAGAGGAGGAAGACGAGGATGATGAT

Sequence 4336

CCGCGGTGGCGGCCGAGGTACAAAAGCCTGACGATNTGGTCTTGAGGGGNNATCCTAAGG
CTGTNAGACCGAAATTNAAACANNCTTACCAGTNGATCTGNGTTTNTAANACANNTNTA
TTNANCAGGACCATGCTGATTATAC

Sequence 4337

CCGCGGTGGCGGCCGCCCCGGGCAGGTACACTAGACCTAGAGCTCTGGGAACAAGTGGGAA
GAAATCTTAAACGACGTGCGCAAGGGCAGTAGGTCCAGTAACATCTTAATGTTATGGTC
CTAATAGGGTTGCTTTGGCCCTGCTCTTCATAGAAGAGCCCAAAAAGATAAGGGGAAGA
GGAACCACTACCCACTTTAATGCCTCAGCCTCCCTCAGCCTTGCCGTCCTGGCTAAAGA
TACCAAAGAGGAGACGGAGGTTTTCTCCCCCTCCCCCAATGAACTGGGAAGAAGACAA
GCGATATACTACAGTTATGGGACCCTGCCTTAGGCAAGCAGCATTGGAAGGGGAACTCTT
GGCCTGCCAGTGATGCCAAGATCAACAAGGCAATTGGGTGCATGAGCCCATTTACATTG
AAA

Sequence 4338

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNNAGCNAGNGATTTATTAAANCAAGA
CNTTGAAACCTTTACNTTNTGCAGNGAAAANCAGGGNGTNTTGAAAANNCANGGGGAAA
CCNGGATGAAA

Sequence 4339

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCATTTAATTTT
TGCCCTCTTACAGTCTGATATCCTGTTGGGCATTCTGGACAACCTGGACCCAGTCATGTTT

Table 1

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TTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACCCAGAA
GGACCCAGTTCCTTACCAGCCTCCCTTTCTCTGTCAGTGGGGACGTCATCAGCCAAGCTG
GAAGCCATTAATGAACTAATTCGTTTTGACCACATATATACCAAGCCCCTAGTCTTAGAG
ATACCCTCTGAGACAGAGAGCCAAGGCTAATGGTGGGTAGTGAAAAATCGAGGGAAGCAC
CCTTNTCAGCCCCCTCAGGAGAATGGATCACCCCCTGGAANTTCATTGGTCTTCAAGTNG
AAAGGG

Sequence 4340

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTGGTCTTCATGGTATCACATCACCAGGTCTTATATACTTGAACCTG
TATTCATGCAACACTTTTCTTACTGGATTCCCAAACCTCTTTATATCTTTCTCCACTCCAT
ATTACAAATTAATTTTCTATGACACAATTTTTTTAAATCAAACTTCAATTTCACTCTCT
TTTACTCAGTATTTAAACCTCAAACTACAGCAACTGGTAATTTTAACACCTTTCCTANAA
AGTCCTAACAAATCTTACCTCCCACATGGGAAGGAGGGCCAACCTGTAAACTCACTGTC
CCAAGAATCCCGCGTACCTGCCCGGGCGGCCGCTNTANAAC TAGGNTGGGATCCCCCGG

Sequence 4341

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGGTACTTTTTTTTTTT
TTCCTTTTATCATCTNGATGATGAACTTAATGTTTCCATTTGTATTAATGGAATACTAAG
TCCCTCTGTGATTTCTGAACCAAGCTATTCCCTAGGCCTGAGTTTTATTTTGTGACACAG
AAATAAATTAGAAGGCCAAGCGTGGTGGCATGTGCCTGTAGTCCTAGTTGCTGAGGTAAG
AGGATTGCTTGAGCCCAGGAGTTCAAGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTC
CAGCCTTGCGGACAGACTAAGACGCTGTCTCAAAAAAAAAACAAAACCGACCAAAAATA
AAACCAATAACCAGNAAAAAAAAATAACCTAAAGGGCAATGGACAGTCCCCTGG

Sequence 4342

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTCCACAACACAA
CCCCTAAGATCCTTTGTCACTATTGCACTAATCCTTATTATATTCTTATTTTTCATATAT
TCAAAAGGAATATTTGACAATGAAACGTCTAATATTTATAGAATATTCTCTGGAATCCTT
TCTATAATAATTATGCAAAACCATTATAAAATTATATATACAGGCAAGGGTAATTACTCA
AATCTAAAGTGCCATCACACATTTAAAAAGCCCTGACAATTACTATGACATTCCAGATCA
TAAGATGCTTCACAATTTAAGACATGGGTAGGGATGTGAAGAAGTGAATCCATGGAAANT
AAAAAAATAACTTATCACCTGGATGGCTTTTTTACCCACNTTTCCTGCAATTTCCATTA
AAAAT

Sequence 4343

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACACGCACGTAGCA
GTTCATACATATCTGATATGCTTTTACACCAGGATTCAGTAAACAACAATAAATATAATT
TCCCCTCTTCAAAACAAAAAATGGATTTATACGGAAAAAGGGTTAATTTACTTGGGGTTT
ATCAGCACACCATTTTTTAATGTGCTTTGAAAGAATTAAAAACCATGAACTGTATTCACT
GAATACCGGTCCATAGATTATATTTTTTCTTTAAACGAGGCTTAAATACATACATCATGA
CTTTCTATTAAGAATCCTTAAATCTATGGGGGATGTTGTTGGTAGTATAANGACTANTAT
TAAAAAATTTTTTCCCTCCATTTAAACCAATTTTCAATTTAAATTTAAAAANAAAAAAA
ATCTTGGACCATTTTT

Sequence 4344

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTATTAAATGT
TTATAAGGCAGATCTATGAGAATGATAGAAAACATGGTGTGTAATTTGATAGCAATATTT
TGGAGATTACAGAGTTTTAGTAATTACCAATTACACAGTTAAAAAGAAGATAATATATTC
CAAGCAGATACAAAATATCTAATGAAAGATCAAGGCAGGAAAATGAGTATAACTAATTGA
CAATGGAAAATCAATTTTAATGTGAATTGCGCATTTATCCTTTAAAGCTTTCAAAAGAAA
GAATTATTGCAGTCTAGTTAATTCAGAACAGTGTTAAATGGTATCAGGGATAAAAGAAAC
CTGGAAGGGGCCAGAAAAGGAATTTAATTTTTCACTTTCATTGTAACCACACCCCCAGGA
TTTTACCA

Sequence 4345

NCTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGACCTCAT
TCATTTCTACCGGTCTCTAGTAGTGCAGCTTCGGCTGGTGTGTCATCGGTGTCCTTCCTCCG
CTGCCGCCCCCGCAAGGCTTCGCCGTCATCGAGGCCATTTCCAGCGACTTGTCGCACGCT
TTTCTATATACTTCGTTCCCCGCCAACCGCAACCATTGACGCCATGTCGGGTATTTCGAG
TGACCGAGACC

Sequence 4346

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTGGCAAATTAACACAAAGCTAATAAGCTGAATACACAATGCAAAGC
ATCCTAAATCTTGGGCAATAACAAAATCTAAGATCCTAANATCATGATATTTAAGGTAGG
AAAAAAGTAATTANACTAGAACTGGGGCGCGGGTGGGCTCACGCCTGTAATCAATCCCAG
CACTTTGGGAGGCAGAGATGGGTGGATCACCTGACGTCGGGAGTTTGAGACCAGCCTGAC
CAACATGGAGAAACCCCATCTNTACTAAAACTACAAAATTAGCCGGGCGTGGTGCCACAT
GCCTGTAATCCTAGCTACTCCGGAGGCTAAGGCAGGAGAATTGCTTGAACCCAGGAGGTG

Table 1

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AAGGTTGT

Sequence 4353

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGGGTAAGCAT
TAACAATATTATTCAAATGTTATATAGAGTTCAACTGTATACAATAGAGCATTTATTAA
AGTGTGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGGCAGGCGGCTCACTTGAGGTTA
GGAGGAAAGCAGACTGGGCCAACATGGTGAAACCCCGTCTCTGTGGTCCCAGCTACTTAG
GAGGCTAAGGTGGGAGGATCACTTGAGGACAAGAAGTTGAGGCTGCAGTGAGCCAAGTGT
TTGTGCAATTGCTCTCCAGCCTGGGTGACAGAGTGAGACTCTCAGGAAGCCGAGTGTTA
GTTGCCTCTGATTTTTTGACAAGCATGGGAAGATGGGGGGCTGTTTCATACAGGGCAAGCTT
CAAGTGTCCAGTCAAAT

Sequence 4354

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAATTCCTACA
GGAGCTAGCCAGCTGGTTCTCTATCCCTGGGAAATTCCCAAGTCACCACCGATAGCTTTG
CCCTAGGTCATGAGGACAGAGGGGTCCCAACAGTTTGGTGGTCAGCAGATTGTCAGAGG
GGTGAAGGGAGCAGAAGCAGCATTCACCTTTTGAACGGAGTCTTGCTCTGTTGCC
CAGGCTGGGGTGCAGTGGCATGATCTTGCCCCACTGCAACTTCCACCTCCCCGGATCAAG
CAGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAATACAGGCGTGCCCCACCATGCCCT
GTAATGGCTTTGTATGTTTACTGGAGACGGGGGTTTACCACGTTGGCCAGGNCTGGTTT
CTAACTCCT

Sequence 4355

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGGA
TCGCTTCCTGGTCTCGCTCCTCCGCTGTCTCCCTGGAGTTCTTGCAAGTCGGCCAGGA
TGTCTCAGTGTAGACCTTGTCTGAGACCGAGCTATGTGGGGCGACCTCTGGCTCCTCCC
GCCTGCCTCTGCCAATCCGGGCACTGGGACAAGAGGCTGAGTTTGATAAAAGCTGCAAAG
GAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTTCATCTATGGCCAC
TACAAACAAGCAACTGTGGGCGACATAAATACAGAAACCGGCCCGGGATGTNTGGACTTN
CACCGGGCANAGGGCCAAAGCTGGGGATGGCCCTGGGAATGGAGCCTTGAAAAGGGGGAC

Sequence 4356

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGGAGGCTGAGGC
AGGAAAATTCTTGAACCCAGGAGACGGAAGTTGCAGTGAGCTGAGATCACACCACTGCAC
TCCAGCCTGGTGACAGAGCAAGACTCCGGCTCTTAAAAAAAAAAAAAAAAAAAAAAAAAAG
AGAGAGAGAAGAGANTAAATAGAAAAAGAATGTGGNTGGGAATTGTGAATCAAAGATT
ATACCCCCCAATTGTTTTTTCANTCCCCTTTTCTCAAATAATAAATTAGTTAAATCAGTTT
CTGAGTTATGCCACTGGCTTGATGAANAGTTGAGAAGGTTCTNTTTGCANNAAATGATCT
TTTTTTGTTTCGTTTTTGTGNTGGCTTNCTGCGATTTTAAAAAATTTAAAAAGGATTT
GGGTTTTTGAAG

Sequence 4357

GNCGGCCGCCCGGCCNNGGTGGANAAGGACAGCTGNTTTTTTTATATAGATTAAAAGAAAT
CTCAATCTTCAAAGTTTCTATTTACTGTAACAGTAGATGGTTTCAAAGAAGCACTTGGCC
GGGCACGGTGGCTCACACCTGTAATCCCAGCACTCTGGGAGGCTGAGGCAGGCGGATCAT
GAAAGTTAGGAAGTTTAGAAGACCAGCCCTGGCCAACCATGGGTGGAAACCCCTCGCCTCT
TACTAAAAATACAAAAAATTAAGCCAAGTGTGGGTGGGTGCATGCCTGTAATCCCACCC
TACTCGGGAAGGCTGAGGCAGGAAGAAATTGCTTTGAATCCAGGAAGGCCGGAAGGTTTG
CAAGNTGAAGCCNGAAGAAATCATTGNCCACTGCCACTTCTTAAGCCCC

Sequence 4358

CGCGGTGGGCGGGCCGCCCGGNCAGGGTACAGGCCCATATTTGTTTACTTTTTCTGTAGC
TCATATATCTATTATTACTGGTGGTTTCTTAGTGGAATTTTTCTTTCACTCTCACTTTG
GCTTTACCTCCAAGTGCTTTCTTCTCTTGCTGCAATTGAGCACTATAATTTGTGGCTTT
CCGGAGGGGGAGCCTTGGTGGTCAGGTGGAGGAGGCAGGCCACATTCCAAAAGTGGAGTG
GTAGGTGTTCCAGACAGAGTGCTGATTCAAGAGTGAGTAGGGGTGTAGGGTGAAAAGTTG
GCTACTAAATTCAAGCCTCACCTGGAGGCCAGTGTTTGCTTCAAACAGNAAAAAGGTGCC
CCTCCTCNTAAATTAAGCCTGCCCCCCCATATTGCCG

Sequence 4359

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAGGCAATGTAAC
TTTGATTTTTCGGTCAATTTAAGTTCTTTTGTACCAAATATTAATAAACAGTTTGTACTT
CAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCT

Sequence 4360

Table 1

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CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAGGTGAG
AGTCGCGCCCCGGGAGTCCGCCGCCTGCGCCAGGATGGAGTTCGTGAAATGCCTTGGCCAC
CCCGAAGAGTTCTACAACCTGGTGCCTTCCGGATCGGGGGCAAGCGGAAGGTGATGCCC
AAGATGGACCAGGACTCGCTCAGCAGCAGCCTGAAAACCTTGCTACAAGTATCTCAATCAG
ACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGGGAAATGCGCAACCGCAGT
GTGCATATTTTATCTGGTTCTCCGAGCTCTGGGACACACTGGGAAGATGACATTGACCCA
TCAGNTGTTGGGAAAAAGAAAGGGTCCCGGCTGTTTACAACAAACCTTTTCACCTCTTTT
TCCTTTTTTACCCA

Sequence 4361

GCGGCCGAGGNCCTNNATTTTTTTTTTTTTTTTTTTTTTTATTAGAGGTGGGGTTTCACCA
TGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAATGATCCACAGCCATGAGTCACTGC
GCCTGGCCTAAAAGAACTAAATCCTGTAGTAGGAAGTTGTATGTAATTACACTGCTATAT
TACCTACAGCTTTGTGTATGTGATCTGATCTTTCTTTGCAGGGCAAATGCAAGAAAATAG
GAGACAAAGGACAAGGTAGAGCAAATNTCAAGCACACAGAAATAATGTGGGGNAGTAAA
AAGCTGAAACTACAGGCCAGGGAGTTANGGGGGGGGCCAAAAAATCAAAGCCTGTCCTG
GCCATTGGATNCAACCTTGGGATTAGGGTTGA

Sequence 4362

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGNCGGGCCGCCCGGNCGGGTACTCTATAAA
TCTAGTGGGAAACATTTCTGCACAACTAGATTCTGGACACCAGNGTGCGGAAATGCTTC
TGCTACATTTTTTAGGGTTTGTCTACATTTTTTGGGCTCTGGATAAGGAATTAAAGGAGTG
CAGCAATAACTGCACTGTCTAAAAGTTTNGCGCTTATTTTCTTTGTAAAATTTGAAATAT
TGCATATTGGAAATTTTTTGTTTTAATNGATCCTATGAAATGGTTTTTTTCTTAAAAAAT
TTAACANAAAGCCTTTTNGTNAAAATTTAGAATTTTTTTCCTTTTAAATAAAAAAAT

Sequence 4363

CCGCGGTGGGCGGGCCGAGGGTACCAGTAATTGAGTAATGGTGGAAATGTGAAAGTCAGT
CACAGGACTCTCATTGGTGCCAGTGTCTAGTTAAGAAAGAAAGAAAGAAAGTTTATAT
ATCCTGTAATCTAGACTGGAAGCTAAATAATTGCTAGGAAGCAAACCTTAAGTGATAGCTG
TTAAGTTTTTTTTGGTTTGTTTTTGACCAGAGATGATGAAGTTAGGTGATCTTTTCTTGGT
TTGCTCCTANACTCTTCCATTTTAACTTATATTTNTAGNTTGGTGCAAAAGTTAATTGCT
GTTTGGGGACCATGAAATTTTAAGCCATTAATAACTAGGGTTCACACANAATGNTTTTAT
TTANATTAAAAAATAGGGAAACCCATTTTACCAAATTNAAACCACCATNTTTTGGCCCAA
TTGG

Sequence 4364

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACCACACC
CAGCTAATTTTTTAAATTTAGTAGAGACGGAGTTTTGTCTATGTTGGCCAGGCAGGTCTCG
AACTCCTGGCCTCAAGTGATCCACCTGCCTTGGCCTCCCAAAGTGTTGGGATTACAGGCG
TCAAGCCACCACGACCAGCTAACAACCATATTCCTAACACATATGCTACTAGGACTGTGT
GGATTTTATAACTACATCATTAATAATTCATCTTGCCTTTGGGGAGCTTACAATTTAATGG
AAATACTGAATTAAAAATAACACACATATTACACCATGTGAAAAACAGCTTCTAACACCA
AGCCACGGGTAAAAGATGGTAATGNCAGCTTAAGNAATGGGAGNCCCTATGGAAAAACAT
TTTTNAAATTTTAT

Sequence 4365

TTAGGGCGAATTGAGCTCCCCGCGGGGGCGGCCGAGGTACTGCTAGTAAAACCAATGAAT
GTTTAACTCCTTCATAAGCAAAATTATTTTTATGTGATCTCTAAGAAATTCCTCCTTTCA
CATTTTTCTGTTTTTCATACAGGTCCTCATGCTGATACCGCCAGTGGATGCCAGAATTTGC
AGTGTGGTTTTTCGAAGCCTGCTGCCCCGCTCTGGGCGAATGACCCTTGACTTCTGGATCTT
TTGTCTACTTCATTTAGCTGAGCAGGCTTTCTTTTCATGCACTTTACTCATAGCACATTTCT
TTGTGTTAACCATCCCTTTTTGAGCCGTGGACTTGTTTTGGGCCCCATTTCTTTACAACN
TTCAGGAAAATTCTTAATTTTACCAGGTGAAATTGTAAATGGTTGGTTTTCTCTTGCAAA
ATTATACTTTTTTGGG

Sequence 4366

CTACTATAGGGCGAATTGGAGCTCACCGGCGGGTGGGCGGGCCGAGGGTACGNAAACTCC
CCCATTTATATTAGGAAAATAAATAAAAGGTTACCATAAGTAAGCTCCAGAAAAACAACAT
ATTGCCGACCTCACGGATTTTTACCAACCACTCGCTTTCCCTGTGGCCTTGGCACACTGG
CATGCTGGTCTAGGATCCTCTACGCACAACGCCTGCTCGCCTCCTCCTGTGGTTGCCAA
GCCAAGCCGCCTGCTACCTTCATACCAAATTGCACTCGCTCCTTCCCTGGAATCCTTTTT
CCTAGATTCAACCACCAAATCGTTAGCCGCTCCTTCCCTTCTTCTAGCTTTCTTTCACCAA

Table 1

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AATCGCACTTGGCCTCCCTGGGACNTCTTTTTCCTTATNCTTTCACCCACCGAAACCTGG
CTGGCTTTGGCTTCGGCTTTGCTTCCTT

Sequence 4367

CACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGAGTAGCTGC
CCCTTCTCAGGGCAGATGATGCTTTGAGAACATACTTTGGCCATTACCCCCAGCTTTGAG
GAAAATGGGCTTTGGATGATTATTTTATGTTTTAGGGACCCCCAACCTCAGGCAATTCCT
ACCTCTTCACCTGACCCTGCCCCACTTGCCATAAACTTAGCTAAGTTTTGTTTTGTTTT
TCAGCGTTAATGTAAAGGGGCGAGCAGTGCCAAAATATAATCAGAGATAAAGCTTAGGTCA
AAGTTCATAGAGTTCCCATGAACTATATGGACTGGCCACACCAGGATCTTTTTGTATTT
TAAAGGGATTCTGGAGAATTTTTGGCTTGGAGCCAAGGGATTAGGATAAAGGGCTTGT
TTTCTTTTAAAATGGT

Sequence 4368

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTATAATCAAATTTTTTTTTTATTTTTCTACAGCAAAATAAAAACATT
ATTTTAAAAAGCAATATCTACATTAAATACATTAGATATTGACAATTTTATAAATACA
ATCATTTTAAACAGTAAACATGATAAATTTCTGATACAAGGNTTACATACCGTTAATTG
NGAAAATGTAAAACTTTACACACTTNTNTTAAAAAGCATTCACGTAATCAATTTTACA
AAATTATCAATTTAAAAAGGNGTTAGGATANGGCTNCTATTTTGTTCCATTTATTAAGGG
CAAATGGATTAGGCATATTCAGGATNCTTTAAAAAAGN

Sequence 4369

GCGGGCCGAGGACCTNCATTTTCTTTTTTTTTTTTTTTTTTNATTTNTTTTTTTTTTTT
TTTGGGCAAAATTTTTTATTATGAAGATNCAGATCTAANAACAGAAGGATAATTATGTGC
TANCTTATATATAGTTCCTTGTAATAATAATGATACATGAAAAATTTNGTNGAAAATGGA
AAATCTGGCAGCTATNTGATATCTNAAAANGTTAAGCAATNTCCCTGCNTNTTAGCTN
TAATNGACTTTTNCANGAATAATCAAGCATATTTGGGTGAAGNAGAGTNTTTAAATGCA
TTTCCATTTT

Sequence 4370

ATAGGGCNATTGGAGCTCCCCGCGGNGGCGGCCGCCGAGGTNCTTACTGTGCTAGG
TGCTGGAAACACGAAGATGAAGAGCCAGAGCCTTTGCTTTTCAGAAGCTCATGGTCTGTT
GGAGCAATAGACTTGAAGAATGTGATGAGGAGGGTATTAATTAAGTTGTAAGCCAGGC
GTGGTGGCTCACACCTGTAATCCCAGCACCTGGGAGGCCGAGGCGGGCAGATGACGAGG
TCAGGAGATCGAGACCATCTGGCTAACACAGTGAAACCCCATCTCTACTAAAAAATACA
AAAAATTAACCAGGCGTAGTTGGCGGGTGCCCTGTAGGTCCCTAGCTATTTNGGGGAGGC
TTGAAGGCCAGGNAGAAATGGGTGGTGNAACCCAGGTAGGGAGGATTCGNCGCCCACTT
G

Sequence 4371

GGGGCGGCCGCCCGGNCAGGTCCAATAGCCTNTGATGCTAACATGTAGCAAAAGTGCCTG
AAGGCAAAGGCGAAGTTAATTTCTAAGTATTTGTATTTTATTATTATTATTTTTTTT
ATTGAGACAGAGCTTCGCTTTGTTGCCAGGCTGGAGTGCAGTGGGCACAATCTTGGCTC
ACTGCAACCTCTGCCACCTGGGTCCAAGCAATCTCCCACCTCAGCCTCCCGAGTAGCTG
GGACTACAGGCACCCTCCATCGTGCCAGCTAATTTTTGTATCTTTAGTAGNAGACCGGG
GTTTTGCCATTGTTGGCCAGGNCTGGTTCGAAACTTCCTGACCCTCAAGGTGGATTCC
ACCCTACCCTTCGGGCCTTCCCAAAG

Sequence 4372

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACAAAACAGCCNGGG
CAAGGGTGGGCGCACACCTGTAGCCCCAGTTACTCAAGGGTCTTGAGGTGGAAGATCCCT
CAAGCCCAAGAGGTCAAGGCTGCAGTGAGTCATGATCACGCCATGCCATGGCACTCCAGC
CTGGGCAAGACAGTGAGACCCCGCCTCAAAATAAAGTAAATATAAAATAAAAACAGCAA
GTGGGAACCTCAGCATTCAAGTTAACTTGTAAGAGCTACCCAGCTGCTAAGAGCAGTGTGAT
CCTTGGTGCTCTTAGGATCACTTTGGTATCTGCTCATTTTCCTTTTTGTCTACCCTATAA
AGCACAAAATCGAGGTGGGTAAAAAGGTATGAAAACAGGCACCTGTTTCTACTTTCTTAA
GAGGT

Sequence 4373

GTGGCGGGCCGAGGGTACTGTGGGAGTATTTTTATNTATAGAACTATAATATATAGTAA
CAATAGCACAAAGCATGGAAAGGGGTAATCGAAATATACTACAGTAAAGTTCTGACATTT
TACATGAAATGTAGAATATTATTTGACTATAGACTATAAGTTAAAGATATATATTGTAAA
CCCTAAAGCCACAATAATTTAAAAATAAGATGTATAGCTAATAAGGGAATAATTAC

Table 1

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TATGCAATAGATTAATAAAAAATTCTCACTCTGAAAGAGAAAAAAGAAGAAAAGAACAA
ACAGAGCAAATAGAAAACAAATAGCCAAGATGGTAGGTTTAAACCCAACATTATTGGATA
ATTACCATTTAAAGGGCTGGAATATTCCAATTTAAAG

Sequence 4374

CGCGGTGGCGGGCCCGAGGTACAAAAAGGAACCAATATAAATTTTCACATGAAACCCTT
GGCTGTNAGTTGCCCTTTCCTAGCCTCCACTCTTAAGGCCCTAAGNCATTCTTCAAAAGACN
GTNTNNTCCCATAATGCCTNGNTCTNTACATNTACTTTTTTTCAGCTNCAATGTCAACCCN
GTTTCNTTACCCCAAANACATTCTNTTGNGCCTTGGGGCCAATTNCCTTNTACCAAAATGN
GGAAGTNTCTNGNAAAGGCNTTGGNTTTTCACTTACNCNTNAAAAAACCACAAAATACTC
CTTNGGANCCATNTTTTATCATTTTATCTTGGCCNCCACANNANAGTTCCCAAAATTNAA
CCTANAATTCCCTTNTTGTGCGGANAANTATTGTANTTTNTTAATTCCCTTGGCCCAN
TTANAANAAATTTTCTTTTAACCAAGNGNGAANGANAAAAAATTAAATTGGCAAATTTT
CAACAAAAACCNCCTTTTGCNAANTATTNTTNTNTTAAAAANAACCCNCCTTNCCTTTA
TCTTTTNACCTTTTCCTTTTNTTGGAAACCCAAACAAAAANCCNTTTTNCNCCTTTTTTN
ANAAAAAAGACGGGAAAAATTTAACCTNCCAAGGGNAATTNACANNTNANTTTAAA
GNNGGCTTATTAAAAATTAAACNTCCCCCTTTTCNNCAANTCNTTNNCNAAAAGGGGG

Sequence 4375

CNCTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTTCATT
GCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTGGGAGAGATTATCAAGCGTTTTGAG
CAGAAAGGATTCCGCCTTGTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTTCTCAAG
GAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCAC
TCAGGGCCGGTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCCCGAGT
CATGCTCGGGGAGACCAACCCTGCAGACTCCAAGCCCTGGGACCATCCCGTGGGAGACTT
TCTGCCATACCAAAGTTTGGGCAAGGGAACCATTTATTACATGGGCCAGGTGGATTTCNT
GGTGGGAAGAAGTTGCCA

Sequence 4376

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGTANAC
ACGGGGTTTACCGTGTTAGTCAGGATGGTCTCGATCTCCTGACCTTGCGATCTGCCCGC
CTNGGCCTCCCAAAGTGTTGGGATTACAGGCGTGAGCCACCGTGCCCAGCCCCACCTNAA
TTTTATAATATAATTTTNTACACAGAGAACACAGAAAATAGTTGTCTTTTGTTTACAATA
GANAATCAACGTTTTTTTTTTTACTACTTATAGTTTANAACATAAGTTTCAGCTTCACAA
CTATTGGTGATGCTATNTAAATGTNNTCAAATTACTGAATTTGNGAAAACCTCTCANGTT
TTCTTTCACATTGNTGAGTTACAAGGAAGATTTAT

Sequence 4377

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTGGAATG
CTGAGGAGACAGGAGTGAAGTAAAAAGACATGGTTCCGGCAGGAAACAGGCAAGGAGAGC
CTTGACTTGACGGAGTCTGGCTATATCGCCAGGCTGGAATGCAATGGCGCGATCTCTCCC
CACTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCACCTNGAGTAGCT
GGGACTACAGGCGCGCGCCACCACGCCCAGTAAGAGGAAATAACTCTACATTCAAATTTG
AGCAGGGCACTTGGTGACCTACTTAGACATGACATTCCTTGGCCTCCCTTTCAGCAAGGA
TGAGAAAACCTGAGGCACAGAGAGGTGAAAATAAGGCCCC

Sequence 4378

GCGGCCCCGAGGTACTTGTATGGGGCTGTCACTGACTTGACATGCTGCTGCAGTTCCTTGG
TCAACTGATCCTTGTCTATGGGACAGGAACTGTGGGGTCAGGACAATAAAGGCCTTCACCA
CCCAGAGGCATTAATGATGTCATCACTCCTCCCCAGGAAACAAATGTAGCCCTCTTCATC
CATCTTTCCTCTTGTCCCCAGTGTTGTAGAAGTCCCCACATTCCACTTTAGCTGTCTTCT
CTGGGTCACCCCTCATAGCACATGAAGAGGCTCACAGGCCTGACAGGTTTGATTCTGATGC
CAATGTTTTCTTCTGTGTTANGGTGGGCNAAGGNATGCCTGGCCCCCTTGTTTCATCAAAA
TGNACCTGNGACCGTTCATAAGGGGTNGGGAGNTGGGCCCTTTCC

Sequence 4379

CCGCGGTGGCGGCCCGCCGGNCAGGTACAGANAACCATGGGCTGAGCCTTACTTTTCAGC
CACAAAATANAAATNCTNTCATTAATCTTANAATCTGAGTTGGCAGATAACCTNGTCTA
ATACCCTTNTAACTAAACTATTCCACAAGAATTCCCTNAATCAACTGNCCTCTGTTTTAA

Sequence 4380

CCGCGGTGGCGGCCCGCCGGGCAGGTACCATGCTGACTTCTTGGTATCTTTTAAGGCCTA
ATTTTCCCTTCTTGTGAGATTACTGTAGTGTGTTCCAGCTAATTTCTATTTGGAAACGAGT
TGGAACAGCTGAAAACCTAGGTATTATTGAAGGCAAAGCAGCCTCACGTCAAGTTTTTATC

Table 1

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AGCTCATTTGGGAAGNCCTTTTTTTTTTTTTTTTTTTTAAATTAATTANAAAGTAGGCT
GGGCACGGNGGCTCATGCCTATAATCCCAGCACTTGGGGAGGCCGAGGATCTCCTNTCTG
GNGGATCACTTGAGGGCAGGAGTTAANAANACCATNCTGGCCAACATGATGAAACCCTGT
CTCTACCTAAAAAA

Sequence 4381

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTNTNTTTNTTTTTTTTTT
TTTTTTTNGGCTTTTATCCTGTCTGGGTGTTCTCTGAGCTTCCTGAATCTGNGGTTNCG
NGTCACATATTAATTTANAAAAATCT

Sequence 4382

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTNNNTTNTTTT
TTNTNTTTTTTCTGCCAAAGGCAACATGTTNTAATGTACATATCTTTCTTAAACATCTGG
TAAGGCAAGTTCTNCATTATATCACGGCCTTGAATCTTTA

Sequence 4383

ANGTACATGGGACTACAGGCACGCCCCACCATGCCCAGCTCATTTTTGTATTTTATAGTAN
AGACAGGGTTTCACCATGTTGGCCAGGATGATCTTGATCTCTTGACCTCATGATCCGCCC
GTCTTGGCCTCCCAAAGTGCTGGGATCACAGGCGTGAGCCACCACACCTGGCCCTCTATT
TATTCTCTTTAAAGAGAGAGAAAACTATGAGAGGCCAAAATTATTTAATTAAATCTTTAC
CTTAGCACAAGGGAAAAAAATGGAATTTTGCCTAATATAGGGTNGATNGAAGCATAACACA
ATGAATAGAAACAATCACAAATTTTTTAATTAAAAAGGGCCAAAAAAATTTTGGGAAGAACC
TTTAATTAAGGCCTTATTNTTGGGNTAAGNCTTTNATTTTTTTTTTTGGGGGTTN

Sequence 4384

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGNCAGGTACANGATCTGG
GAATAAATATTAAAAATGACGTGTGGCTGGNTATATGGAGAATGTTGGGCCCAGAAGGA
ACCGTATAGATCAGATAT

Sequence 4385

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTATAGATTATT
TGTCTTGAAGAAGAGCTTTGATATGTTTCAAATTCGACGTTGGCTTTGGAAGGAACTG
TAAATTTACAGATCTTTGTCTTCCCCACAAAGAGCCTTAATCTCACAGGTTGGATTATG
TGGAATCACTGCTATTTTTTCAGGTTCTCCTTTAAGTGACTAAGGGAACATCCAGATACT
TTCAAAAAAAAAAAGTCTAAGTTTTTTCACTTTGTCCATTGCCATTTAAATTATCTTCT
GCATATTTTAAAGCATTTCTGTGAACATAAGNATTGCCCATCCAGAAAAATTTGCGTCC
TACANTTGATTTTATGTTTAAATGGA

Sequence 4386

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACATACTCATTCGCT
ACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAATCGTT
CATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCAAAA
TAAAAAATANGANANAANCNTNAAAAAAAAAAAAACAAATTANAAAAAAAAAAAAAAAAA
AAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 4387

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACTGTGTAACACAT
GGCCTTTTACGTAAGAAAAGCGTTGATGGCATTGCCTGGCAGAAGGAAGTAGAGAGCAGAG
GCTTAGGGGGCTGTGTGCCAGATGGCATTTTGGGAGAAGGAGAACATCTCACTTCTTTGAA
GGCTTGAGATCTCAGGTCCAAAGGAGACTGAGTGTGTGGGAGGAGTGGTAGCTACTGACC
AGGAAGTTGTTGCTGGCTGCACTTCCCTCCTGATAGGGAATCCTGGATTGCCTACAGAGG
GGTCTGAGGCAATTGTATCTGGTTTGGGGTCTACCAAGTTGAAGCTGGAGATTTGTAAA
AGCTTGTCATCTATTGATCGTTGGTCTTGTACTTAAGTAATCCAAAGCTCGATCCTGAT
CTGCATGGAATTAGTATCA

Sequence 4388

AGCCCGTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTT
TTTTTTTTTTTTTTTTTTTTTTTGTTCATTTCCCTGGGGACACTAAGTGATGCCTCTTC
GGATTATCTGAAAATGTGGGCACTCTGTATGGCAAGATGGAAGTGGCTGTCTTTAAGGAA
ATAGTTTCAACTGTTTCATGCCTCTGTTTCTCCCTTCATAAAGTTGGTTACTGAGCCTGCA
TTCTAAAGTGCCTGTTGTGGCCGGGCATGGTCCCTGTAATCCCAGCACTTTGAGAGGCCA
AAGTGGGCAGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATAGTGAAACC
CCGTCTNTACTAAAAATACAAAAATTAAGTGGGCATGGTGGCC

Sequence 4389

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CCGCGGTGGCGGCCGAGGTACAAATAAATGTTAAGACATGATCCCTGTTGAAATCCAAAA
GATAAAAAGCCCTTAAGTTTTCTTATTTTATATTATAAATGGACAAGGCAGCAAATGGTA
TTAAGGATACTTTTGGTAAGAGAATAGTTTTTATCAGAGCAGGCTGCAGGTAGAATATTT
CTCAATTACTATTTACAGCTGAGTAACTTTTTCTATGGACATAAAAATATACACTCTG
CAAATGATTTTTTAATGAAAAATGACAGCCTATTTTCTGCAACTTGGTTTTTTTACATAAT
AATCATGGACATACATCTAAGAATTGCATATGTAGATCTCCTGTTTTGATGATCACCCCTA
GAAATTCTGTTTTGTTGGGTTGTGCCTTTAATTGGACCCAATGGTCTT

Sequence 4390

AAGTACTTT
TT
TTNGGTTAAAAAAAATNAAAAAANAANGNTAAAAATNAAAAAANAANACCNNNTAAA
AAAAAANAACANANCCNGNNGCNCANANNAAAAANGNGNCCCCCNCNNNGNNGN
NCCCCNNNAAAAAANNNGACNCCCNAAAAAANAAAAACNNNNCCNNNNAAGGAAGNG
AACNCCCAACCNAGAGGGGGNGGCCCCCCCNAAAAAAGNGGGNNCCCCCCCCCTGAANAA
AAACTAATCCCCCCCCCNCNNGGNGAAAAAGGAAAAACANNACGNGNCNNANANNNA
AAAAA

Sequence 4391

CCGCGGTGGCGGCCCGCCCGGGCAGGTACACATATACTAAGCTGTAAATAGTCTGCCTTCC
ATTAGTTTGGTCTCTAAGCACTATAAATATGTCGACTTCATATCAGTCTATGAGACCCAG
TGACCCCTTTTCAGAGGCATCGGTAATACATTTGGCAAATGTCTTGAAAACATGAATTG
TAAATTAACATAGGTAGAACCTTGATAATAAGAGTCCCAAATATGTATTTTTTAAAAATGT
TAACATTAGGAAAAAATATTATAATCATCAGCTCTATTTCCCTGAAAAAGTTCAGTTGAG
GTAACCTCTGCAAGTCACAGCTCCACATTTACATACTGTTCTGGACCCTCTTTTTGGCTG
GGNCTGTGGGTCAATAGGAATTCTGGAAGATATATCTCCAGGAACCCCTT

Sequence 4392

AGCCCGTATCACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAG
GTACATAACATCAAAACTACTGTGTGAACTTGAGAATGTCTGATTAAAGATTTCAATG
TATATCTAAAACTAACTCAAATCGTTGACCAGCACTTTCCAGTATCATAACAATGCGG
CTGACCCTCTTCTGCCTTCACTTTACACCCCATCATAGCACATTATTTGTGCACAACTAG
TGAGGTCTGTGCGGCTCATCATCCCCATAACCAAGTCGGTCTGTGTTGAGTCATATCATT
CTGTGCTGGTTTTAGAAAGTCACCATAGGAAACATGAAGTCACATCCTGGTCAAAAACTG
TCCATTTCTCAAAAACAGAGAAAAACCTGAGATACCGAGGCAGCAACCTAGCGACACTTA
CAGGGAAGGGGAAAGGAACAATGACAACACCCCNCC

Sequence 4393

AGGTACCTGGAAGTGGGATGTTCTGAAAAGATATCTGAAAATGTGGAAACGACTTTGGAA
CTGGGTAAATAGGCAGAGGTTGGAACAGTTTTGAGGGCTCAGAAAAAGACAGGAAAATGTG
GAAAAGCTTGGAACCTTCTAGAGACTTNGNTAGAAATGGCTTTTNGCCAAAAATGCTGAT
AAATGATATGGACAATAAGACCCAGGCTGACGTGGTCTCCGATGGAGCTGAGGAACTTAC
TGGGAACTGGAGCAAAGGTGACTCTTGTTATGTTTTAGCAAAGCGACTGGCANCATTTTG
CCCCTGCCCTAGAGATGTGTGGAACCTTGAACCTGAGAGAGATGATTTATGGTATCCTGG
CAGAAGAAAATTTCTAAGC

Sequence 4394

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACACCATTTC
TTAATAATTACTATGTTGATAACATGTTGAAATATAACATTTTGGATATATTAGATTAAG
TAAAATGTGTTCTTAAATTTACCTGCCTGTTTCTTTTATTCTTTTTTTTTTTTGGAGGC
GGAGTTTNCGCTTTTAATCACCCAGGCTGGGAGTTGCAGCGGCGGATCTCGGCTCACTG
CAACCTCCGTCTCCTGGGTTCAAGCGATTCTCTTGCTCAGCCTCCCAAGTAGCTGGAAT
TACAAGCATGTGCCACCATGCCCGTCTAATTTTTGTATTTTAACTGGAGACCGGGGTTTC
ACCACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGNATGATCCGCCCCGCTCA

Sequence 4395

GTAATTTGAGGCGGAGTTTCACCTGACCTTAGGT
GATCTGCCCACCTTGGCCTCCCAAAGTGCTGANATTACAGGCGTAAGCCACTGCNCCTGG
CCTCAATTCCTTTTAAATTCCTTTTAAATGTAAAACAATAGAATTAGGAATCCAAAAAGA
ATAAAGAAAACCTGGACTGACATAACAANGACAGGAAGAAACAAACAGAATGCATAATTN
TCAGTNTAAAAGATGGCNTAAAATCAAATGTAGCAGTTATTACAAAAGAAGAGTCAAAT
CCCCTACTAAAAGGTAAAACTNTAGAGTTAAAAGNACAAAAGCTNTTTTGAGACAATTG
TACCTTGCCCGGGCGG

Table 1

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Sequence 4396

AGGTACTTTTTTTTTTTTTTTTTTTTAAAGGGAAAACATCTTTTTTATTATTATTAT
TTTTATTTATTTATTTAGAGACAGGTTCTTGTTCTGTTGCCTGGGCTAGAGTGCAGTGGT
GCAATCCTAATTCAGTGTGGCCTCAAATTTCTGGGCTTAAAGGGGAATCCTTNCCTTG
CCCCNCCAACCCNNTTTNGAAGGTTAAGGAATAAGGGAACTTATCTAGGGGGCAACCAA
CNNCCTCAACTCAATTANCNCNTGGGNATAAAANTTTCTATGTCTCTTAATTATTTCTN
TANTNTCTCCCGNTTAANNCAAACAACNGTGNANGGGGNTTCCCNANGNCCCCAAAAGTT

Sequence 4397

CCGGGCAGGTACTTAGCTTTTATCAAATATATAAGTATTTGATAAAATACTCACGTAAGT
TACAGGAAACACTTCCGCATATGTTGTATAATCAAGGTCAGTGTCTACTTTGTAATTCAG
TGACTATTAAGTCCCAATGAGAAAATGAAAGAATTGCTGGGTTCTACTTTCTGATAAG
AACAGTTCCTTGATTTCCCTTTTTTCTTGGTTGTCAGGAAGCTCCACAGAAAAGTCTGT
CTAATCACAGCAACCGTAATAATTATCATGGCTTAGAAATTCATTTCTTCATTCTAAGAT
CATAATTTTCTATTTTCAATTTTATAAACCAGATTGTTATTTGAAGCAGCTTCAAATCTGT
TTGAAAAAGAGCTGCTAAGATGATGCAATGTCTGTGCTGAACCAAAAAGATATTAATAA
ATTTTACAAAGCAAGCTTTTACTGAATACCAGCTAAGTGATNTATTAAATAAAACAAATN
AAAAGATTAACCTTGGACTTGCCAATCTAGTCATCTTTTTTAAAAAAC

Sequence 4398

CCGGGCAGGACAATATGGATTGGGATTTCGATTCTCTCATACCTGTGAGGCAATCAGTTC
AGGTCAGTTTTTAAACCTGAGTTGTTATAATCAGAAGTTCTCTACAGTTTTAATTGGAA
GTTTGGGATATGGCATACTTTTAAAGATTAANNCATTNGGCTTGGAANTTNAANTTTT
NAGTAGANTGNCAAACCTTTNCAANAAGNNGGAATTAGGAGGTTTCCAAAACCTNNGG
GTTNTTCCGGTTCNTTTGGGAAGNAGCCNATATACNTTAAATAAAGNNCNCCTGGTTCT
TTGGCCANGNAAGNCTCCACGTTAATTTTCAACCCTTAAGCTTCCNCAATNAAGCACGG
AAAATTNCTTTAAACGTAACNCCCACCNTTTTTTCTT

Sequence 4399

TTTTTTTTTTTTTTGGCCNGGGATGATCCACAATTTAACAAGTTTAATTACATATCAAGT
TTTGTTATCAAGTTCTATACACTTTACAATCAATTANATGTTAATTNTTTTATAGAAATN
TTATATCANAAATCAAGTTATTGGCTNTCCTNCAAATTTCCCTGNCCCANANAACCTCCTAG
CTTTNCAACTTANTAAGTGTGTAACGCANAANTCACTTTAAANCTCTGGCATCCAAATTT
CCTACAAGGTTGCTATAAGGATCAAACAAGAANATGTNGTNAAAGCAAATGAAGCACCCN
TGCCTTNCNTTTNTTAAAGAANTCAANAAAAAGCTNAATTNATGTCCTTTCTTCNCTCTA
AAGAAG

Sequence 4400

CCGGGCAGGTACGCGGGGACAGCTGTGTTTGGCTGCAGGGCCAAGAGCGCTGTCAAGAAG
ACCCACACGCCCCCTCCAGCAGCTGAATTCCTGCAGCTCAGCAGCCGCGCCAGAGCAG
GACGAACCGCAATCGCAAGGCACCTCTGAGAACTTCAGGTAGGAGAAAAGCAAACCTCCCT
CCAACCTCTTACTTCGGGCTTAAGGCAGAGAACTCGCCTCCCCAGAATCTCCTCCCTCCA
TGATCCCCCGCTATTCCTCTATTTTCTTTTCCGCGGACCTGCAGCCTTGGGTCGACCCTG
CCCTAGGGGTGACTGCAGGAGAGCAGGGAGGATGGTCAGGCGTCACCAACAACCCCATCA
CCCAGTAACAAGAACCTTGACTCTCTCAGTCCCTCTGCATCAAGACACTTACCCATTTC
CACCTCATGCCTGCTAACTTGAATGAAACAATCGCTGGGAAAGCATTAAGAGAATTAAGG
CTGGGCACTGTGGCTCATGCCTGTAATCCCAGCACTTTGTGAGGCTGAGGCAGGCAAATA
ACTTGAGCCCAGGAGTTTGTAGAACCAGCCTGGGCAAACATGGCAAACCTGCTCTTCC
AAAAAAATACCAAAAATTAGCTNGGCGTGCTGGTGTGCCCTGTATTCCAGCTACTTTGGA
AGCTNAAGGTGGGAAGGATGCTTTNACCTGGGGAGGCGAAGGCTNCCAGGGAGCCAAAAC
TGANCCATTGCACCCANGCTGGGGGANAGAGCAGAANCNTTTTTTAAATGAATNGAAAG
GGAGGGAGAAAGAGAGANGAAAGGGNGGGNGGAAAAA

Sequence 4401

AGGTACNATGTGGGAAGACCTTTAGATTTGGTTTCTACCTTACTGAACACCAGAGAATTN
ACACTGGTGAAAAGCCCTATTAATGTAACAGAATGTGGAAGGCCCTTTATTCGTAGAGGGA
ATCTTAANGAACATCCTGACAATTCCATTTNTGGNTTNAAAAACCCCTATGTACTTGTA
AGGAAATGCTGGGNAAGTTCCCTTTTAGTTTCNGGCCGTNGCNGCCATCTTTCACNTGGAA
CCATCCNNAANNAANNCATTACCGTGNGNTGTTANACAAACNCATTACNAAAATTG
GTAAAACAAGNAAAATGNNTGTGAGTAAAGTGCCCCCTATCTTAAGATTCCGGTTAGGNT
GNNTATNTAACCCNTNTAAACAAAGTCACCCATTTCCACATAAGGAAAANTTTCCCAA
TAAACCNTGGGGATTNNNAAGTAAAACAACNCCTCTTTAATTGGANGGCTTGGTTAAAA

Table 1

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CCAAAATTGTTCTGGNGNGNNAAGNGGCCCCCTTTTNAAGCAACCTTTTAAAAATTNT
CNCNACCAACCCCTTTTAA

Sequence 4402

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGCTGATGATGTTCCACAA
AAGAGCAAAACATACACAATCTGGTTCCACTCTACAGAAATCCTGGAAGTGGACTACAAA
GGGAATAGACAGGGTGTGGCAGGAGGGGTTCTCACGGTTGGAGTGGGAGGTAGGGACA
GGAATAGAAGGTAGGTAATAAACATTTCATGTGGTATTAACCTTAGGGCAGATGTGTCAATG
TATTTCCAAGTTTAGCATAATATAGGTATAAAAATTAAATAAAAAGTTTATATGTGTGTG
TATATATGGGTAAATACACAACACATACCTCCTAGAGTCATTACCTGAGAGGTCTACAA
AGAAAAGACAGCAAAATTAACAAAAAATACACCCAGAATCAAAGATTTGAGTTTGGTTCC
TTTCATAGCAGAATGGTATGCAACATTTCTTGAAAAATGGCTAATCCTAGGGCTTGGA
AGAGAATATAGGAGTAAAGTCTACAATTTCTCATGGTACCTGCCCC

Sequence 4403

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCAGTTTGGG
CTTGATGGTAACGTTTATTTTCTTGGCAGAGAAGCTGATCGTCGAAGGGCATCTAACC
AAAGCGGTAGAAGAAACAAAGCTTTCAAAGAAAATCAGACAAGAAGCAAAAAGAATCTG
ATTTTCAAATACTCTGAGTCCAAGCAAGGAAAAAGCAGTGACGACACTACAGACGCCC
AAATGGATGAGCAAGACCTAAATGAGCCTCTTGCCAAAGTGTCCCTTTTAAAAGATGACT
TGCAGGGTGCACAGTCAGAAATTGAGGCAAAGCAAGAAATACGGCATCTTCGAAAGGAAT
TTGATCGAAGCCAGGGAGCTAGCTAGAAACAAGTNAAACAAAAAATGCT

Sequence 4404

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGAT
ATGAGGGGTTCCGTGACTGAGGTCTTGAGCTGCTGTTGATGTGCTATACCTCCTTCAATT
CTCANCTCTCAAAGGGGAAAACAACCTGCAGAGGATGGGAAATGCTATACTGCATGCCTGG
AAACACCCACAGGAAAATTACCAGTTTTGAGCTTGCTCAACTGCAAGAAAACTGAAGGA
GACAGAAGCAGCCATGAAAAATTAATCAACAGAGTGGGACCTAATGGTGAGAGAGCACA
GACTGTGACTTCTGACCAAGAGAAACGGTTGCTACATCAGCTCCGAGAAATCACCAGGGT
CATGAAAGAAGGAAAATTCATTGACAGATTTTCTCCAGAGAAAGAAGCTGAGGAGGCCCC
TTACATGGAGGACTGGGAAGGTTACCCTGAAGAGACTTACCCAATTTATGACCTTTCAGA
CTGTATCAAGCGTANGCAAGAAACAATCTTGGTGGATTA

Sequence 4405

CCGCGGTGGCGGCCGAGGTACGTGAATGTTTGCCTAGAAGTCCTGTTCCCTATATAATAA
TACTTTGATAATCATTTCAAATGCCAACCTTCTTAAATATAAAAGTTTTCGTTATGTT
AAATAAACTATTTTTTTCTTTATTTCTTTTCTTTTANNTTTATCTTCAAGCCAGGATGAA
GGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTGTGTCCTATCCAT
TTATGTGGGCCTTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTTGACTGG
ACTCATTCAGGGGAGCTCTGGTTGCAATATTAAGTTGTAAGGTATACCAGGGTCAAA

Sequence 4406

CCGCGGTGGCGGCCGAGGTACTGGCATCAACAAGATAAGGTTTCCATGGAGCTGCCATAA
TTTTTCTATAACGCTGCCCCCTAGGCCAGAATTGGTTGGTCTACAGGTAGATACCTGATCC
AACTATGACAACCACAATATTCCAGCCCTTGACAATGATTGACTCTTCCAGGACGGGCA
CTTAAGTCAAGCTAGGCCAATCATAGTCATTTCTCAACTAGATCCTGCCCCACTGGTCAT
AGCTAATTGGTGCAGGACTGGAAGTGGATGCAAGCTGACTCTCTGGATTGAGAACTAGAG
GTCAGACCATTCCCTGTCCCATGTCTGAAACTGAAATATGCAGCACTGGAAAAGTCTCA
TGCTCATGGCCATTGGGGATCAGCCTTC

Sequence 4407

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTTGCCTCCCGG
GCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACC
ATGCCCCGGCTAATTTTTGTAAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTG
GTTTCGAAGTTCTTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATT
ACAGGCTTGAGCCCCCGCGCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAAT
ACTTTTTACAATTTAAAAAATGATCTGTTTTGAAGGCAAAATTGCAAATCTTGAAATTTA
AGNAAGGGCAAAAAATGTAAAGGGAGTCAAAAATATAAATCAAGNTATTTTG

Sequence 4408

CCTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTC
TTTNANN
GGNAAGCNACCCTNAAANAGNGTAGCCCCGGNNGGAACCCGGGGCCCNAAAGGGCCTTCA

Table 1

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AANGGNAAAAANAANGGGNCCCGCAANTNANANNAANTNTCNNANCNAGCTGNGTTNT
TAANNGACNCACNANCCGNGNGANCCNCCNNNAAAANNNGCCCNNGNACCTGCCCGGGNG
GNCGNTNTAAAANNANGGGANCCCCCG

Sequence 4409

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTNANANANATGGGGTTTCGCCATGTTGGTCAGGCTGGTCTTG
AACTCCTGACCTTGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTT
ANGCCACCGCACCCAGCCTATCATTTCTTAANTGGGTAACAAGAGGCAAGTCATCCAAAA
AGACAATGACACTACTGTTGTCATANAGGAATAGTAAACACAGAAAATGTAANNGTGC
TCCAATTCTCTGAGTCANCATTTAAAGAGGAATTTTAAAGGGTCATCAAGGGACNTGTG
GGNTATAAANCNTGAAAACATATTGGCANTTTGAACTGGGNGGAAAAANAAAGGAAAAN
GCCCATATATTGCCNCAAACCATT

Sequence 4410

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATCAATAAAATT
GGCTGCTTGGGCGGTTTTAGTTACCACCTTAGCCTGGTTTTCTGCTACTGTTATTTATCA
TCGTAGGTTCTGAGTTGCTCATTTGTGGTTGCTCTTTGGACCAATAAAAATGGCAAGTATG
AGATGAACATGATAAAAGTATGTTTATATAACAGGAAGAAGCTGGGCGCGGTGCTCATAC
CTGTAATCCCAGCACTTTGGGAGGCTGAGTTGGGTGGATCACCGAGGTCAGGAGTTCGAG
ACCAGCCTGACCAACATGGTGAAACTAAAAATTCAAAAATTAGCTGGGGCGTGGGGTGGG
TGGCGTNGTCTGTAATCCCAGCTACTTGGGGGAGGGCTGAGGCAGGGAAGAATTCATTG
GACCCCAAGGAGGGGGGNGG

Sequence 4411

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACNGGTGGGAAG
CAGAAGCAATGAATCAGAAAGGAGCAGAGCACCANAAGTAGACAGGAAGGGTAGGTGTCC
TCTGTGTGTAGGCAGACGAAAACTAGNAGGAACAAGANATAAGCGTTAAGGGAGAGTGA
CCTCNGGGGCCANGGAGGGCAGGGGTACGGGANAGTATTGGAGCTGCACANCCTGCT
GCTTCTGCTGATCTTAGATTCTGAAAGTTGNAGAAGAGGGGAGAGACGCANTGACTGGGG
A

Sequence 4412

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGTGCAATGCTTTCATCTGATATGCCAGTGTG
GTAAGAAGGCTTTCCTGGAGGTAGAGACTCTTTTATCAGAAGGTGGGGGTCTCCAGAA
GGTTTTCCCCACCAGGAATTGGATTTGATGGCTGGAATTTAGAGCCTACACATTTGGGTC
TCACAATCAGGGCAGGGCAGGTAAGGCTAATGGTGCAAACCTGTGTCTCTGCACAGGCAGT
CATCTAGGGGAAGGGGTGTGGTGACGCCAGTAAACCTGGAACCTGCAAGTGGTTCAGAA
CTTTGGTGGCCAGTAAGGGAAAACTCCTCAAGNCATGCTACAATATTGAAAAGGTTCAA
AAAGGCACCTGACCAAAGTNGTTTGTTTTTTGCCCCCGG

Sequence 4413

CCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCTTGGCTCACTGTAGCCTCGACCTCCGG
GGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAGTAGTGGGACTATAGGCACACAGCACC
ATGCCCATCTAAGTTTTTGTATTTTATGTAGAGACAAGGTTTTACCATGTTGCCCAAGG
CTTGATCTTGAGCTCCTGAGCTCAAGTGATCTGCCACCTTGGACTCCCAAAATGCTGGG
ATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCAACTTTAGAGTCAACATCTCTTAT
CACTGGAGCTTCTGGAGAACTCCATCACGTTGGTGCTCTCTTTCCTGATGGTGTGTGC
CCAAATAGGCTTGTCTCATCAAGGGTGAACCTTATTTTGCTATGGATA

Sequence 4414

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACTGC
AACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCCTCAGCCTCTTGAGTAGCTGGGATT
ACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCAC
CATGTTGGCCAGGCTGATCTCAAACCTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCC
CAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAAAA
ACTGACACCTATTACTGATAAAATTCTCTGTTTAAATCCTATTTACTATTTTAAAGAAT
AAAGTATTAGTTTTTTTTTTTAAATACAATAATTTCTGTTATTGGATAAAAATTTTAAGGG
CATTTTTTCATTGGCCTTTTGC

Sequence 4415

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGAATACCGAG
AGTGAATGCTGAAGGAATGATCCCCATTGGTGGTGACCCTCAGGTGAGACTAGGGTGCCT
GTGTTTCAGCAAAGCCTGGGCAATTGGAATGCAGGGCTCCTAAGATTCCATGACACCCCT

Table 1

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ACCTTCTAATTCTGTTATTGCAACTGCAGACGGTTACCTGGCACGCTGGCCACAATCTAC
CTCACTCTTATCAGAGTCTGAGCAGTGCTTTCAGCTCTGAGTTGAGGCACCTCGAACCTT
GTTTTTGTGGTGAAGGATCCTAAAGTGCTGTGGGGGAGTGATCACATTTTTCACAACATT
TAAGTTAAAGAATTTTTCAGTTACTGGACATCCCTCAGTTCTGATTAAACCTATTTTGG
ATTTACCCAGGTTTTTAA

Sequence 4416

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCAAAGCTCGTGCAATC
CAGGGAGGGGAAACCGGAGATAGGGGTCTTCGGGCCCCGGGCAGACCTCTGTGCCGCTG
CAAACCGTTGCAGCCTGAGGCTGTCAGGTCCTCCCCAGACACCTGCGGACCTNCTNT
CCTGGCTTTCCCGTCTNNGTTCATGGGCGAGATTCTGGGTCTGCGTAGCCCGGTGCTGGCT
TCTTTCTTGCAATTTTGGTTTTGCAATTCGCGTTTTTGTGGCTCTCCAGTTTTGAGGAAT
TTACTTTTTGCAGTTTCCTGGAAGAACTGANAAAATCTTTACCGGCTTGGATGTTGGGG
TTTGGCCCTAAANCACCCNAGAAAATATTTTAAACCCGGGGAAACCAACATTTTTTGG
TTTTGGCAAAGTTTNGAACTTCCCCTTTAAATTGGGAATTTTGGGGTTTTAN

Sequence 4417

GCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TNGGATTTTNAAGTAANANACAGGGTTTCACCATGTTGGCCAGGCCAGTTTTGAATCCTA
ACCTCAAGTGCTCTGCCCTGCCCTNNGCCTCCCAAGGTGCTGGGATTACAGGCGTGAGCCAC
CATGCCTGACCACTGTTTTTTCATTCTTTATCCTTTTTTCTTCTTCAAGATTGGTATGATT
TCCCAATNNGCCTGTCTTCTAATTAACNAAATCTTTTCTTCTGCTTTGATGGAAACCC
TGGTGGGGTTGGAAACCCCCNTTTATTTGGNAATTTTTTTTCAANTTCAANTTANTACN
TATTTCTTNAANNCTTCTTATTGAATTNANCTTGGGTTTGGGTAACCCCTCCGGGCCCCG
CTTNTTAANNAAAACCTANGTGGGGAAATTNCCCCC

Sequence 4418

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTGTGCAAAGTGAGGAA
GATTACTGTGGGAGTGAANGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACCATCC
GCTACCCAGATCCTGTCATCAAGGTGAACGATACTGTGCAGATTGATTTANGGACTGGCA
AAGATTAATCNACTTTATCAAATTTGATACCAGGCAAATTTGTGTATGGTGATTTGGTNG
GAGCCAACCTCGGTCGTGTTGGTGTGATCACCAACAGGGAAAGACATCCTGGTTCTTTTG
ATGTGGGTGTCATGTGAAGGATGCCAATGGCAACAGCTTTTGCCACCAGGCTTTNCCAACA
TTTTTTTTTTCANTTGGCAAAGGCCAAATANAAACCTTTGGGA

Sequence 4419

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTCANAATTGTAAAATTTTATTTTCCACACATCAATATTCTTATTAACACAGC
TTGATTGAAAGAATTCTGACCAGNGGCTGGTCATTACATGCAGNNGGCTCATGCCTGTAAT
CCAAGCACTTTGAGAGGCCAGGCGGGCGGATCACCTGAGGTCCGGAGTTTCAAGACTAG
CCTGACAAACATGGAGAAACCCCATCCCTACTAAAAATACAAAATTTAGCTGGGCCGTGG
TGGGCACATGCCTGTAATCCTAGCTACTCAAGGAGGCTTGAAGCANAATCACTTGAACCT
GGGAGGCGGGAGGTCGTGGGTGGG

Sequence 4420

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTAAGAAAACA
CTGTTGGCATCTAATATATAGAAATGTATACATTTTGAAAGTGTAATGTTTGGCTTTGAA
ACTCTTCTCCAGTTATTGAGTAGCACCAATTCAGAAGCACCCATCAGGAGTATAAGGAA
TTTTTCTAGACTTAATGTATTTATTTGCTTTAACCACCAGCCCGTAAGAAGGGTTGGATG
AATTTNGAGTAGGGAGCCGNAACCCCAAGCTTAACCCTTAGGCTTTTGGGAAGAAATCCG
AAANGGTCCATAAGTCCTCCAAATGTGCGTNGTGAAACAAGCAGCTAAAACGTGAGAAAC
CATGAAGGCTGGAGTTGACAACCTTAAGTTTNGGTCCATNGATTGGAGGGGAAATGGATA
GTGGGGTTGTGTGTTGCCGTTGGGGNTTT

Sequence 4421

NCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATATATT
TATTTTCTTTTGCTAGAAAGTGTTAAGACAGAATCCAAGTCAGGCTGAGAGCTCAGTCATA
ACTATTTTATTTAACTACTTCCCCAAGGATGTGGACCTTACACTTACTTTACAGCCAGCC
TCAGAAAACCTCCTAGTGGCAACCTAAGGGCTAGAGCAGCTTGTAAGAAGTGGNTCTGGA
GGGGGGCTCTTTCCATTCTCACACGTNTGGTGCATGAACCCTTTNTCCTATCCTAAAGGC
CCTTCGGGAANAANCTCTAACTGGTGATGAGAGCAAGGTTTGGGGGCCCGCTACACTTCG
GCAGTGCAGTGTTGGGAAAGGTGAANAAACACANGTTTCTAAAGGAAACCAAGGAANTTG
TTTGAGTCTGGAGGGAATATTGGGGGGTCTGGGAC

Table 1

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Sequence 4422

GATGGCCACATAGCGGTCAAAAGCCATGGCCAGCAGCACTGTGGATTCCATGCCAGATAA
GGAGTGGATGGCAAACATCTGTAGCAGACAANCATCAAACCTGGATGGTAGTTGGAATTGA
ACCANAAAGNATGGGCCAGCNT

Sequence 4423

CACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTTTCCTTTATTNATTTTTTAAACAGGGTCTCACCATCGCCCAGGCTGGAGT
GCAGTGGCATAACCACGGCTCACTGCAGCCTCAACCTCCTGGGCTCAAGTAATCCTCCCA
TCTNAGCTTCCTAANAAGCTGGGACTACAGGTGCACACCACCACATGTGGCTAATTCTTG
TTATTTTTTTGTANANACGGGATTTTACCATGGTTGCCCGCCCAGTTTGTTCCTTGAACCTC
TGAGCTCAAGCAATTTGCCCACTTTGGCCCCACAAGGTGCTGGGATTACCAGACATGAAG
CCATGGTTGCCNGGCCAATTTTGATTTTCAAATNCCAGATGTTTTTCTAAGGGCNCACCA
AGNTTTAATTTATTGACCCT

Sequence 4424

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGCAGAGCGA
AAGGTGGTGGAGTCCTGAAGGAGGGCCTGATGTCTTCATCATTCTCAAATTCTTAGGACG
GTCGGGCCCTGGAAGGAACGCTCTCGGAATTGGCCGCGGAAACCGATCTGCCCGTTGTGT
TTGTGAAACAGAGAAAGATAAGGCGGNCATTGGTCCAACCTTGAAGGCTTATCANGGAGG
GCAGACTTCAAAAGCTACTAAAAATGAACGGCCCTGAAGATCTTCCCAAGTCCTATGACT
ATGACCTTATCATCATTGGAGGTGGCTCANGAGGTCTGGCAGCTTGCTTAAGGAGGCAGC
CCAATATGGCAAGGAAGGTGATGGGTCCTTGGACTTTGTTNACTCCCCACCCCTTCTTGG
GAACTAGATTGGGGGTCTTTGG

Sequence 4425

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTACTTTCCAGAGTCTCTTGGAAATTTAGGCATTACATTCTTTTANA
AACTGTTCTTTTATTTCTTTACATCAGAGACCTTGAATATTTAATTTACTTTTCAGTAAA
GCTGTCAGTTGTAATCTACAAATTTTTAAAAAAAACAAATGGAAAACAAANTCCTCGTT
TCACAATTTTAAACCCCTTATTGAGTCTAAATTTACTAGAGCTGCAAGTTTATTATTCTCC
TGCAGTTATGATGTGCCTCCAATTGTAATTTGGGGTTGACCCTTCAATGCATTAAATCTC
CCCAGGGCTTATCAAACTGGGAAGAGAATAAGTCTTACAATTTNGAACTTCATTAAAT
ATCCTCANTTTTATTATTTAAAACAGGAATGGATTA

Sequence 4426

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTAGGTTTTTTTTTAAGAT
CCTCACTGGACTAAATGGAAGAGAATTCTAAATTCTCAACGTGTTCTAATTATTCTGAAC
TATTCTCCCTCTCCCAAAAACACATACAGATACACACAAATTTATTTTGTGTGTAACCT
TGACTTTCAGAAAGNTTGGGTTATTCTATGCATAATTTTTTTAAAAAACCATTTGGTTTA
AAATAATTTCAAACCTTAAAGAATTTGCAAGAAGAGTATAAAGCATTCCCATATATTCTTT
ACCCAGATTCTCCAAATATTAACATCTTATCACATTATTTAACCCCTCCTTTTGTGTGTGT
GCCGTGTGTGGTTTTCCCCCCCCACATGAACCATTTGNAGAGTAAGNTTGCGGGACCCTGT
TGCCCTTTATTCTCTAAA

Sequence 4427

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCAT
TTTNAGTANANACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCTT
GATCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCATCCGGC
CTAACGAGACTTATTTTTACTCAACTANATGGCGTACATTCATTTGCTTACTCAGCTGGG
CCAGGAATTAANTTGGGCACTGGGAATTCCAAAACCAACAAGACATTCTNTGTCATCAGG
GAACTCACAGCCTAGTTTGAGAGATAAACAAATGAACATGAAATTAT

Sequence 4428

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCANCCTGGGTTTCTAGGGCAGCCTATGC
CTGCATCATTTAGTAGTCANACAATGACCTGGGCAGGGGTTGCTCATAGACCTCAAACCC
ATAAAGCTTTGCCATCTGCCAATCTATNTGTATATTGCCTGAGGAATGCATTCAAAGTTA
CAGCCAGTTCTCAAGTCCCCTTTAATTTTTTACTTTTTTATTGGGTTCCCTTGGGTCCCTCC
TGCACATGCAGGTAACCTCCCTATCAGCCANANATATGTGGAGAGCTTATCGTAN

Sequence 4429

CCGGGCAGGTACAGCGGGGAGTTTANTCCTTANGAAGGAAAATTGAGCAAGTATTNAATT
GGTTGGACATTGCATAAAAGAGGTCCATATCCANGCTAACTCTAGAAATTTTATTANTCA
AACTTATTTGGCCTCTNTTTTTTCTGTCATGANGACCATTCTTANGATGGCACCTGTGG

Table 1

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GTAAATTNTTGTGCTCCCAGAAAGCAATTTCAAACATGCGCTCACCTNGANAAAAATATA
ACAAATTGNGCCNCTANCATTGGGGATCTTTGTTATNAGGNANTAANAGGGTAGTCTCTN
TNGTATTATTGTTGTAAGTCATTATGGCNTTATTTNAAGNTAAAAATGTNCTTTTTTNGC

Sequence 4430

CCGCGGTGGCGGCCGAGGTACTTACTTTAGCATTATCATTAAAGGATGAAGGTTCTAGAAC
CATCAGGAACAAGGGTCCCATCTTCACACAAGTTACTTAACTGCTGGGAGGCTCTATTTT
ATCTTATGTAAACTATAGATAATACCTACTCACCTCAAGGGTGTATCAAGGGTTTATGTA
AGCTAAATTTGTAGAAAGCAGTTAGCACAGTGCCAGGAAGGATCCAAGAAGAAATGGTAC
GCGGGCATTGAAAAGAAAAATACTCAACTAATTATTGAGTGCCCACTGTGTATAAAATGT
TAGTATCCACGAATTCTGAAAATTCTGTGAGTTTCCCAAACCTCATAGAATGTTTCAGAAT
CCGTCCTG

Sequence 4431

CCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTTTTTTAAATAACATTCTGTTCTCCAT
CTAAATGCCACANAACTTCATGGGANAAATCAAATTACCTTCTCCTAAATCATCAGTTA
AATGACAAGATATGTCTACTATATNTTTAAGAATTTAAAGTTAATATATTTAAACTAGA
TATCCCAAATCCACATTTTCCAAGTTAATATGCATTAAATTACTTACACGGATGGATGCT
CAACCTTGTGAACACACTAAAAAATATTGAATTGCCCACTTTAAAGAGGATAAATTTTGG
CCGGGCGCANTGGCTNACACCCGTAATCCCANCACTTTGGGAGGCCGAGGCAGGCCGGAT

Sequence 4432

AGGTACTTAACCCTTGTTTTTAATATGAGTTACAGATTTTTTTTTTCTGGTATGTCATNTG
TCTTTNGACCTTGGNTGTTTTGTTATGGATTTTTATCTTTNTCAGACTTATCTTTTATGG
CTTCTGCATTTTAAGTCATACTTAGGAAAAGGCCTTTCCATGTTTCAGCATTTTAAGGNA
AATNTTANCTAAGGNCCANGCCAATGGTTAAGGCTTTCACCACNCTTAATTATTGGTTTA
ANCAACCTNTTTGGNAAANNCTGTAAAGNGTTGGGGNNGNGGNCNATTCNNCNTTTTTGA
ANTCNTTTATTGGGAAGATTTNCAAANGGGCCTTNGCNANNTTNGAANGCCTTAATTNAA
ATTGG

Sequence 4433

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGGCATGATC
TCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGATTCTCCTGCCTTAGCCTCCGAA
GTAGCTGGGATTACAGGCACCCACCTTCATGCCTGACTGATTTTTTTGTATTTTATAGTAGA
GACAGGGTTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGGGTGATCCACC
TCCCTCGGGCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCTGGAAGT
TTGTTTTTTGGACAAGCCATAGTTTTTTGTCTCCAGGATATATCACTGTCTACTTTTTAA
AGCTCTGTTTATTTGAATACAAAAAAGTACCTGCCCGGGGC
GGCCGCCCGGGCAGGTACTT

Sequence 4434

ACGCGGTTGGCGGCCGCCCCGGGCAGGTACGCGGGGGAGTTGGCTATCCCTAATGTNATCA
CTAAAAGTATCTAGAAGATCTAAATAAAGGAATGATCATTTTCAGAGCGTNTGCTAGAATG
CCTGAAGTTATAATAGCCCCCTAAGTTAACTTTAAATTCCTGGCCATTTNTTCTAGAAA
NNNGGTTTGGCACTTTTGGCANANACCGGATTTTTCTCAANNTTANCTTTNNTTTTTTTT
TANANNTTAANCANGGGGNATGNANTTNNTTTTGTAANTGTCCNAGNGTTTTTAAATTAA
TTGNGTNAATTCNAAAAAATAACCACCAACTNGGAAANTTTCTTTATAAGGTTCNT
TTAAAAAANGTATGGAACCTNAAAAGGAAACCTTTCCATTTAANTNTATTCCTTNGAA
AAANAANCNANAAANCCCCCTAAANAAACCCCTCGGGGAAANACCTTTNAANAAAATT
GNAAAATTATT

Sequence 4435

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGNTTTTTTTAAAA
AATTATTCTTATTAAGGATGTGTTAAGGGGGAGGTATAAAGCAACATCAAAGTTTTCCCA
AATGGGAGTCTGATGCAAAATCACAGTGCAAACTTTGTGAACAAGTGAANAAAACGTGCG
TTTTTTTTTATCATCTGTCATGCTGGGTGTTACCCATCCAAACCTTGCAAGTCAACAAAGT
GTGAACAGAAAATNTTTTGAGAAAGAAGCTTGTNTGTGATATCCAGAGGGAATGTTTTAA
TTGACTTAATTTTCATTTTCTAGCTCTCGTCTATGTCCACAACCTGGGAAGTTAACAGTGT
TTCAGGGACCCANTCAAGTTGANTGTTGGGAGTTNTAANTNTAACTNAAACCGCTCTC
CAGGGGCCCCCGCG

Sequence 4436

CCGCGGTGGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCACCACGCCCTGCCAAAAGG
TGAAAAGCTTGATAAGTGGGTGCCTCATGAGCTGACCAAAAATTTTAAAAATCGTCGTT

Table 1

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TTGAAGTGTTGTCTTCTCTTATTCTACATAACGACGACGAACCATTCTTAGTTGGATTG
TGACGTTTGACAAAAAGTGTATTTTATACAACAACAGTGATGACCAGCTCANTGGTTGGA
CCGAGAAGATGCTCCAAAGCACTTNCTGAAGCCAACTTTCATCAAAAAGAGGTCAGGGT
CACTGTTTGGTGGTCTGCTCCTGGTCTGATCCGCTACAGCTTCTGAATCATAGTTAAAA
CCAATACATCTTGAGGAAGTATGCTCAGNAAATNTNATGAGGTGCACNNGAAAACCTGCNG
Sequence 4437

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTNCACAAAT
GGNATTTTATTAANTAAAATTTAATTTACNAANCTTTGTNAATTTTAANAAAAACATTCA
TAGANCATAAACAAAAATNTCAATATGCAATATTCAAANTTACAAGAAAATAAGCACAAA
CTTTTAGACAGTGCAAGTTATTGCTGCACTCCTTTAAATTCCTTTATCCANNANCCCCAAA
AAATGTNTACAACCCCTTNAAAATNTANCANAAAANCATTTTCTCNCCCNCTGGTTGTN
CACGAATCTAAATTTGNGCAAAAAAATTGTTTTCCACNTANNAATTTAATAAAAAGTTTA
CCCTNNGGGCCCGGNATNTTANAAAACCTATATGGGAANCCCCCCCCGGGGNNCTTGCAATG
GGAAAATTTCCNAANANTCTAAANNCTTTAAATTCCNAAATAANCCGNACTAAACCCCTA
NGNAAGGGGGGGGGGGG

Sequence 4438

CCGGGCAGGTACCNCGGGGAACCTACCTAAGCGATGAAATCCAAAGGTGAATCTTTT
GGTTTGGTGATTTTGATGATAGCCACAAAGCANGCAGGCTTGTATGGTNGCCTTGAAAC
CAA

Sequence 4439

CCGCGGTGGCGGCCGAGGTACAAGCCCAAGGGAGATTACAGGGAACCTTGCAGCAGACA
AGAATGAGATTTTGTTTTCTGAATTCAACATCAACTATAATAATGAGCCGCCGATGTATA
GGAAAGGGACTGTGTTGATATGGCAGAAANGTGNATGAAAGTGAATGACAAAAGAAAATT
AAGCTTGCCAACAGAAAATGGAAGGAAAAAAGATGGCAGGTGACCCGGACCAGGACAAAG
CCAGTGCCCTTGCNCTGCGAATNTCATCGGGGGAATGCTTTCTTGGAAGG

Sequence 4440

CCGCGGTGGCGGCCGTGGGGGTGGGGGCTGAGGGAGGATGCCTATAGGAATATGCGTGTC
AATCGCGCAGCGGGTCCCCTCCTCCTCCAGAAAGCGATTCTGTGTAAGTTTAAACCTGCGG
CCACCCTGCGTGCTCGGTGAACACTGTCTGGTGCAAAGGAGGTATACGAAATGTGTTTG
TTGAATTGATCCAAGCCATTATCAGCACTTCAGTGGGCTGGGAGGACATGAAAATAGCTG
CATGGTGAAGTGGTGTGTTGCTGGTGCCTGTCTCTGCCCCCTGCCTCTGCCAGCTCTCTCAT
GACATTCCTTAGGCAACCTGGCCCCGTTTGCAGGAAGCTGACAGCAGGTATTCAGAAATTT
TAGGATTTGGGCTTAATTTTACAGATAAGCAGGACAACT

Sequence 4441

AGGTACGACATACACTATTTTTCTTAAGAATTCTATTCTCTATGTCTCTATGTAGGAGAG
GAAAATGTTTCTTTTCTTACCCATCAGTTTCGTGGGCTTGAGATCCCTATAACAAAAGACA
GATTGACAAGAGAAAAAAGCNTTNTAAATTTATTTTAATGGTAGGTTTNAAGTGACCCAG
GANCCTTCAAAANTGAAAACCCAAANAANCAGGNAAATGGGTCTATTTTNATGCTTAGGT
CTGNCNAAAACCAGAGAGTTATGGGGAAGTGTGATNGGNCAATGGGANTNTNATCTAATG
GTAATAAATTGGGGAAAACCTTANCAACGCCTGTTTTGTTTACATTCCTTCTNGGGNATCT
CCTCNTGNCTTTGAGGAT

Sequence 4442

ATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAAACCT
TGGAATGCCCTCAGTTGTTTCCCTGAAGGTGGCCAGGTGGTCATTACATTTTCCCAAAG
TAAAAGTAAGCAGAAGGAGGATAACCACATATTTGGCAGGCAGGACAAAGCATCGACTGA
ATGTGTCAAATTTTACATTCATGCAATTGGAATTGGGAAGTGTAAGAAGGATTGTTAA
ATGTGGGAAGCTTCACAAAAGGGGCGCAAACCTCTGTGTTTATGCTTTCAAAGGAGAAAC
CATCAAGGATGCACTGTGCAAGGATGGCAGATTTCTTTCTTTCTGGAGAATGATGATTG
GAAACTCATTGAAAACAATGACACCATTTTAGAAAGCACCCAGCCCAG

Sequence 4443

AGGTACCATGTTTCAGGAAACCAAGGACAATATTGCTCTACTGTTGGAAACAGAGTAATCA
AATTTTCTGTGCTAGCCTTAATTCCTGCCCTCTTTAAGAGGAGCTTAATAAAATGTAAAT
ATGCAGAATGTTTACTTTTGGATTGTCTCATGGTGTCCCTGGAATGCTCCGAGTGACAA
GCTTACC²GCAAGGCCGACCACACGTTCTCGGGAGTTCCTGGACAGACCGTTCTTCACAAC
GACCACGCTCAGGTGTAACCTTACCTGGGTTCGAGGAGACCGTGTTGGGTGCCAAAGATG
TAGGGGAACCTGCCTGATACACCACCCGAGGCTCTCCCCTTCCCGGTGGAGACGAGGGA
ATGAGAAAAGAAATAAAGACAAAGACACAAAG

Table 1

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Sequence 4444

CGTTAATTACGACTCACTTATNAGNGNGNCCGGAAATTTGGGGNTAGNCCTNCCCAACTC
 CGNCGGGGNTGGGGNCCGGGNCNCCGNCNCCCCGGGGNGNCCAGGGGNTTAACGCCGGGGG
 NCTCCTTTNGNTGGNCTCCAAAAAACANCNCNTTTTAAGTAAATGGGGGGGTNTTAATT
 CNTNCTTNGGAAAAACCTTTNCAAACCAATTCNAAGNTNCAAATTAATTGGAAAGNGGTG
 GGGNGGTAAANTTAATNCAAATNTAANTNCNTAAACCATTTTTTTTAAACCAAAAGNTA
 ATTTGGGGAAAAAACCTTGGGGGGGGGAATTTTAACTTGGGAAGGGGTTTAAATTTT
 TGGCNCNCCCAAAGGGGGTTAAACCAACCAAGGAANTTGGGGTNAANGNAATTTTCTTN
 GGAAGGCCCAAGGNAAGNTTTTGGNGGAAAAAACNTNNGGGGGGATTTAAGGNTTT
 TTTTGGGCTTTNCCCCAAGTAACCCCCCCCCANAATTNGGGAATTCCTTAAANNCCCAA
 TTTCCCCTTNAAGCNAAATTGGGTTTGGGGGGTTTCCCCCAATTTTAAAGGGGGGGGG
 CCCTTNCCNTTACCTTTNNTTTTTTTTTTTTCCAANTTTCCCCGGGTTTTTTTTAGGAT
 TAAAAAAAAAAAAAGGGAAAGGNGAAAAAAGGGTTTTTTTTTTTCCAAACCTTTTT
 TTTTTCCTTTTTTCTTNCCAAAAAAAACCCCCAAATTTTTTGGGAAGNGAAAAAA
 AACCAAAAAANCCNTTTTTGGGGGGNAAAAACCTTTGGGGGGNAAAAAGGGATTTGGNCC
 NAAANANAAGGGGGGGGGNAAAGGGGAAAAAANTNTTCCNTTTAAAAAAAGGTAAAAAA
 GGCCNCGTTTTTTTTTTTAAANANAAAAAAGGGGG

Sequence 4445

TTAATTACGACTCACNTTATNAGGGNGNCCGGANATTTGGGGNAGNCCTTCCCACNCGCC
 GGGGNTGGGGNCCGGGNCNCGGCCNCCCCGGGGGGGCCAGGGGNTNANCCNTNTATNTC
 TNTNTNTNTATNTATCTATNTATNTNTNTNTNGGTNTNTGTNTNTNTNTNTTTCAAAA
 CCTATNTGCCAANAAAAAGACCTTAAAATTTTCTAAAATTCCAAANAAANCCAAATA
 NANACTCTNGGTNTNGTATTNCCAATNTTANAACCAAAAGGGTTTTTTAATTATATATAA
 CCAGCTGGGAATTTTTTAAGGNTNTAACCCAATTAAAAATTNAAAAAANTTNTNGGGAT
 TATTTCCAAAGGTNGGGTAANTTCAAAAAAATCTTTTNAAAAATTTAANCTTTNTTTTC
 AAANACCTTTTNCNCAATTTGGGAAAGGCCCAANTGGGTTTTTNTAANCCATTNGGGGGGG
 GTNGGAATTGGGAAAANTTTTNAANCAAAAANCCCCCTGTGTNTCTCTATTTATGCCTTC
 TATTTTATTAACCCCTTAATNTTATTTAANAATTACAGAATTANGACAAAATTGGGGGAA
 TGCCCGACCAATTGGAATAANAATTAAGGATCTTCTTTTNTTTATAAAACCAAAAAAAA
 AACTTAACCNCNTAATCCATAAAATCNANTTTAGCCCTTTNTTTAANAAGGGCCAATTG
 GGATTTACCTTTTCATTNAATGNTTGGGAAAAAGGGGGGGGGGAAAACCNANAATGGTAAAG
 GGAACCNAACCTTTTNGGGGAACCCCAAAAAANCTTTTTTTTTTTTNGNTCTNANCCCC
 CCATANNAAAAACCCATTTAAAAAATAAATAAATTTTTTTGGGGCNC

Sequence 4446

CGACTCACTTTATAAGGGGGNCCGGAGATTNTGGGGTAGGGCGTACGCCACTCCGCCGGG
 CTGGGGNCCGGGGCCCCGGCCCCCGGGGGGGGCCAGGGGGTTANCCGNTNGGCGANTTAA
 TTACCCACCCANCCANTGGNTTGNCTGCTCAATTAATTGGCGANTTATTTAATTAGCCAN
 CCAACCANTGGGTAGTNGGTTAATTAATTAANCCANTNAATTAATTAACCATCCAATNG
 GTT

Sequence 4447

TTACGACTCACTTTATNAGGGGGNCCGGAGATCTGGGGTAGNGCCTNCTCCACNCCGCCG
 GGGNTTGGGTCCGGGGCTCCGGCTCNCCGGGGGGGGCCANGNGNTGAACCTTTGTTATNAN
 AATTTTNGGTNTNANANANACGGTTTATACACGAGNTCTNCCATTAGGTCTNTNCNTGCT
 NCTTTANGGAATATTANANAAATTACGTAAAAANANTTAGGTTCTGNCCATTCTTTTTAN
 ANANAAACTCNGGANACTCCCNNTTGGGAAGGGGTAGNAAANTCACCAATTNANAGT
 ATNAACCAATCTTTNGGTTNTTAAAAAAGCTTAANGGGGTNCCTACAANNACTGAANCC
 CTAATTTATTNCCCCCTTTGGCCAAAGTTTNGTTTNTAANCTTTTTTTTCCCCAAAAAAA
 AAAAATTTGGGGGGTTCTTNGTCCANAAAAAANAGGTTTACAAAAAANACCCCTACTAT
 ANAACCAATTTTTNANCCCCCAATTTTAANATCGCNAAAAAANAAAAANACCAATNTATTA
 CTANTTTNATTTAAGGGGGNCGNTTTATTTTTTAAAAACCCANTCNTTTAANAAAAANCCNA
 NTTAANCCNNTTTAAAAAGANGGGAAAAAATAAATTTTTTCCCATCCTTTGGGAACCAN
 TANTTTTTCCAAATTAAAAATTNTCCCTGGNTTTAGTTNTACCCAAAAANTTNCAAGTTN
 AAATTNAATTTTNTCAAAGGAAACCAANTTAAAAANTTNCCCCCTNNANCCAAAAANG
 NGTTTTTNGGTTTTTTTCAAAAAAATAAATAAATTTGGGTNTTAAATTTAACC
 CTTTTTNAACNTTNCANTTTNTTTTTTCCAA

Sequence 4448

GNCCCTNCCCCACNCCGNCNGGGNTGGGGNCCGGGNCNCCGNCNCNATNCCTTTGGGGNG

Table 1

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NTNCCAATNCCGGAATGGGAAAGNCNCCTNCCGNCNCCCNTNGGTNGNCNCCTGGGGGT
 NCNCCCCGNCNTTTTGNTTGNAAGNGGGGNAAANGNGGGAACCAATNTTAAGNAAAANAN
 AATNGNANAATNTNGGAATNGGTTGGTNTNCCCCTTTTAAAAANGNGGAATTGGGGGGCC
 ANGNGGNAAAAAAACCAAGGNAATTCCCCTTGGTTTTGGTGGGGGAATTAATTTTTTAA
 TTTTTTGGAAAACCCGGGGGGAATTTTAACCCAGGAAATTTTGGAAAAAANTGGAAAAA
 GGTTCCCANCCAAAAAGGTTGGGAAGGCCAATTTTAACCCCCAAAATTGGAAGAAAGGGG
 AAAAAAAACCAANGGAACCCGNAAGGNAAAAAAAATTCCTTTTGGGAATTGGGGGCCT
 TTTCCAACCAAAAGGNAACCATTTGGCCAAANCCAAAAAACCAAAAAAAATTTGGGGGG
 GAAAAATTTAACCCTTNGGGTTGGGAAATTGGGAAACCCAATTTGGAAAGGGGGGCCAAG
 GGCTCCAAAAAGGCCCTTTGGGGGNGGGGNAAAGGGGNAAGGAAATTAAAAACCNCCA
 ACCCGGGGGGGGGGNCCCAAAGNAAAGNGGGGGGTTTCCAAAGGGGGGGAATTTTTTC
 CCTTGGGGGGGGCCCCCCTTTGGGCCCTTTGGCCCCCTTTAAAAAAAACCTTTGGGGTTG
 GGNCCGGGTTTTTTTCCCAAATTTAAAAACCCCCCAAAAAAAATTTCCAAATTTTTTTT
 NCCAATTTTAATTTTTTTTTTCCCCCAAAAAACCCCCCCTTTCCCAAAAAAAAACCAA
 AAAAAAAGGGCCTTTTGGGTTT

Sequence 4449

CCCCGNGTGCGGCGAGGTCTTGATTTTTTATCAGATGGCCTGGAAAACCCAGTCTCACA
 AAAATATGAAATTATCAGAAGGNATTATCAGNTGCCAANTCTCTATNGGTNTNGNANACA
 AGGGAAAATTGNAAAACCTTTAACCCCTTCCAACCTTAAGGGTTTAAGGNTTTTNCCC
 AACCCGGGTNGGGAAATTGGGNTTNCCCCTTTGGGGAANCCCAAAGGGNAAATTTGGGGG
 TTTTTTGGGGAAAAGGGTTTTTTTTTTTCCCCAAAATTTTTTTNGGGGGGCCGGGGGTTT
 TTTTNTTTNGGGGTTTGGGGGTTTTGGGGGTTTTTTTTTCCCCAAAAAAAATTTNN
 NNNNTGNNTNNTTNAAAAAAAANNTTTTAAAATTTTTTTTNCCCCCTTTGGGGGNA
 AAAGGGNAAAAANTTTAAANCCCCCTTTTTCCTTTTTTTTTNGGGGGTNTTGGGGGAA
 AAANGGGGGGGGNTTTTCCCCCAAAACCCCTTTTTCCTTTTNAAAAAAAANTTTG
 GGGCCCCCCCCCCCCCTTTTGGGGGGGGGGGGGNTTTTGGGGCCCCCCCCCCTTTT
 TTTTGGGGGGGGGNCCCCCAAACCCCAAAANGGGGTTTCTTTTTTTTTTTTAAAAGG
 GGCAAAAAAAAATTTTNAAAACCCCCCCCCCAAGGGGGTTTTTTTTTTGGGGGAAA
 AAAAAAAAATTTTAAAATTTTTTTTTTTTGGGGGCCCTTTTCCCCAAAAGGG
 GGGGGGAAAAAAATTTTNAANTTTNGGGGCCCCCAAAAAAACCCCTTTTAAANGGG
 GGGGGNAAAAAAAGGGGGGGGGGGGGGGGGGGCCCCNAAAGGGTAAAAAAAATTTTCCC
 NAAAGGGGAAAAAAATTTTTTTTTTTTAAAAAAAGGGGCCCTTTTTTTTTTTTCCC
 CAAATTTTAAAATTTT

Sequence 4450

CCGCCCCGTTTAAATTACGTAAACCTTTCAAACNTTAATTNAAAGGGGGAGGACCGGTAAA
 AATTTATTGGCGGTAAAGNCCCTTCCCCAAACCNCCGNCNCCGGGGGTTTGGGNGGNCCGG
 GGGGACCNCCGNCACCCCCGGGGGNGTCCCAAGGGAGGTTAANCCAANGNNTTAAAGT
 TTTGGGNCCAANCCCTTNCCCTTGTTGGGNGNCCCNTTGCCAAACCTTNGGTTTAAAGGN
 CCNCCCTNCCGNNAACCNCAATTCNCCGNGGGGGGGGTCNTTTTCAAAAAAGGNTTGGG
 AAATTNCCCCCTTTCGCTTGGNCNNCCNTTAAAGGNCCCCCTCCAACCAAAAANG
 GNTTAAAGCTTGGGNGGGGGNAAACCNNTAATTTNATGGGGGGCCNAGCCAACCAAGGA
 CCAAACCCCAAGTTGGCCCCCCTTTCCTTAAAAAGGGTTTTTTTTTTGGGNTAATTT
 TTTTAAATTTGGNTAAAAGAAANGNAACCNAAAGGGGTTTTTTTNNAAACCCCAATTGGG
 TTTTGGCCCCCNAAGGGGCTTTGGAATTCCTTTNGAAAGCCTTCCCCTTGGNAAGCCCT
 NCAAAAGGTTGGGAATTNCCTNNGCNCCCAACCNCTTATGGGGGAACCNCTCCCCCNAAA
 AAAANTTGGGCCTTGGGGGGGAAATTTTAAATTTANNGNNGGCCCGGGTTTAAAAAAC
 TCAAACCCCAATTNGGCCCTTGGGGGGCCCTCCTTTTAAAAAAAATTCAAAAAA
 CCTTTTTTTTAAAGGGNAAGGGTTCCCAAAAACCCAAATTTNCTTTNCCCTTTTAAATTT
 CCAAACCTTGGGGGGGAAAGGCCNTTTTCCCTTTGGGGGNAAAGNAAAAAAAACCC
 TTTCCCCCAAATTTCCCAAACCCGGGTTGGGGGGGTTGGGGCCTTTTCCCTTTCCNTTTT
 TTTTCCCCCTTGGG

Sequence 4451

GCGTTAATACGAACCTTCACTTATTAGGGGGNCCGAAAATTTGGGGTAAGNCCTNCCCCAC
 NCCGNCCGGGNTGGGGNCCGGGNCNCCGNAGNGNTNACCCGCAANANANANANATNCAAN
 GNGTCCTTACNTNANAAGNCNCCCCACCTGGGTNTNANAATTAATTAAGGNAACCGNCCA
 GGNACCCCANAAATNTTGGTNTTANGNGGGAAAACCAANGNGGTTCNCCANAAAATTTTGGG
 NAAGNCCAACNCCAATTTTANAACNCCAAAACCAAAATTCCAAGNTNGGAATTGGCCAAG

Table 1

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GNAAAATTGGAAGGGGCCTTAATTTTGGAAAACCAAAGGTTAAAAGGGGGGCCTTTATT
 TTTTGGCCCCCTTTCNAAAGGGGGGCCCTTTGGGGGGGGGAAAAAAAAAAAAANTTTTC
 AANGGGAACCCCCCAAAGGGGNAAAACCNANGCCTTTTTCCTTAAATTTTAAATTT
 TTCCAAAATTTTAAANGNAACCAAANGGGGCCTTNCCTTAAAAAAGGAAGGNCCCAAT
 TANTTCCCTTGGGACCTTTTTTGGTGGGGGCCAAAGGGAAATTTTAACCAAAGGNATTG
 GGCCTTGGCCTTCCAAAAAAGGTTCTTTAATTTTAACCAAGGGAATTGGGAACCAA
 ATTGGGCCCCCGGAAAAAAAAAAGGGTTTAAATTTTGGTTAAAGNAAAAAATTTT
 TAAAAATTGGGGGNCCCCCTTAATTTGNAAAAAATTTGNCCAAAAAATTTCC
 NCCAAGNNAAATTTGGGGTTTCCAAAGGGTTTCCCGGGGGGCCCAATTTTAAAAAA
 AGGNCCCCCAATTTTAAAAAAGGGGGGAAAAAAAAAAGGGTTTTCCTCCCA
 GGCCCAAGGGGGGAAAGGTTTTT

Sequence 4452

CCGCGGTGGCGGCCCGCCGGGCAGGTACTAAAGATATACAATAAAAGGGAAGAAGATTTT
 CCTAGTTTAAGAGAGTATAATGATTTTCTGGAAGAAGTGGAGGAAATCGTTTTCAATTG
 ACCAACAATGTGGATTTGGAGAACACTAAAAAGAAATGGAAATATATCAAAAAGAAAAC
 AAAGATGTCATTCAGAAAAACAAATTAAGCTGACGCGGGAGCAGGAGGAGTTGGAGGAA
 GCATTGGAGGTAGAACGCCAAGAACATGAGCAGCGACGGCTGTTTATACAAAAGGAAGAA
 GAGCTGCAGCAGGCTCTGAAAAGGAAGAACAAGCAGGCCTTTTAGATGAGCTGGAGAGC
 TCCGACCTCCCTGTTGCTCTGCTCCTGGCGCAGCATAAAGACAGAT

Sequence 4453

CCGGGCAGGTACCCTTTAGCAGTGTCTGCTGTGTTCTGNAGTGTANTGAGCCATT
 TTCCAAACGTTGACATTTTTTGGACCANAAGTGAGCTGGATCTTTCTNTGGCTAANGCT
 ACAGTGGAGGATGGAGGAAAAGGGGATGGTCTAATGGTCTTTTAGGAAGTGGCATGACGT
 GGGCTCTGAACGTGAAGTGAAGGAACACAAAACATTTNTGTTGATTAGGACCAATAAAAA
 AACATGGGAATTTGCTTGGGACATGATATTTAACATTTATTAATTTTGTGGGAACCAGT
 AAAATGTTCCCTTGGTGCCCTATCAAACAGATCCTTTGTTGAATCTGTCACCTATTCTAAC
 C

Sequence 4454

NCAAGGGATAAAGTCCCAAGTTATNCCATTAAACCAATAACTTCCTNNGGNAATTAATNGN
 CCTTTNTTCCAACCAACNCNAAGNGTAAATTTNCCAAGATNANAAAACCCAAATCNACAN
 TTAANAATGAGTCAAACCTTTTGTGCGCGCNCATACCTTTTCCANANANANCCACACAC
 ANANAATTGGGAGAATTTTTTAATTAACCGGGGAAACATAAAAGGGNNGGTTTTAAATTT
 TTTAACCTTTTGGGGGGGGGGGTTTTTAATTTNAAAGGCCAACCAACCCCCAATTTT
 TTTTTTAAAAATTGGNTTGGCCTTTTTTGCAANATAAGGGAAAAANTTTNAANAAAAAA
 AANAACCTCCAAATTGGCAATAAAACCNNTGGGTAAATTATTTCCAANCCTTTGGGAAG
 ANTTTNACCCCCCGGGGATTTNCTCCCAATTAANGGGGTCTTNAATTAAGTCCTCTTT
 TATATGCCGTTATATTTTAAAAAAACCCGGTTTGGGGGGGCCNTTTTAAAAAGAAATTN
 ANCCCACTTAAACCCAATTTCCCAATTTNNGGAANCCCTTTTTNTTCCCTTTAATTTT
 TAAANAAAAAAATTTTTCGCTTTTTTTAAAAAATTTTGCNTTTNAANTTGGGG
 GGGGGGGGGNNAAATTTNNGGTTTTGGGNTTNGGGGNGGCTTTTAAAGGGGTAAATTT
 TAAAAAAGGGAAAAACCCCTTTNAAATTTTAAATTTTTTTTNAAGNAAAAA
 AAACTTTATTTTTTTTTTGGTTTCCCCCCCCCTTTCCCAAAATTTTTTTTNAANAA
 ACCCCNAAAAA

Sequence 4455

CTCCCGCGGTGCGGCGGGNCGCGGGGGAAGGGTGGGGAGTGCCCTTTCTTGAAGGAAT
 CCCTTAAGTGCACGTCTCCCGTTTTCTTTTCACATCAATGCAAGGAAGNTCCCGTCTGGT
 NGGAAAATTTTAAACNAAAACCAACCCCCCAANAACCAACCCCCCNAATTTGGGAAA
 GGNTTTTTGCCCAAAGGGNTTCCCCCCTTTTTTNAAAAAAGGGNAAAAAANGGGGGG
 GGAAAAAANATTTTTTTNNGGGGAAAGGGGGCCCCCAAAAANGGGGTTTTAA
 ATTTTTTTTTTTNAAAAAATTTTTTTGGGGGGGGGTTTTNTTNGGGGGGGGNAAC
 CCCCCAATTTTTTTTGGGGGGCCCCAANTTTNAAAAAANAAAAAAGGGNNAAANG
 GGGGGGGTTTTCCCCCCCCNAAATTTTAAATTTTTTCCCCCCCCNAAGGNGGGGGGCC
 CCTTTTTAAAAAANCCCCCTTTTTCCCCCTTTTAAAAGGGNNAAAAAANNTT
 TTTNTTTNTTTNTTTNAAAAATTTTTTTTTTNTCCCTTTTTTCCCCCAAAAAA
 AAAAACCCCCCTTTTTTTTTTAAAAAGGNNNTTTTTTTTTTGGGGGGGGGGNNCCC
 CCCCCCCTTTNTNCCCCCGTTTTNTTTNTTTTTNTTTTNGCCCTTTTTTTTTT
 TTNCCCCCTTTTTGGGGGGTTTTNTNCCCCCAANGGGGCNAAAAAGGGGGGGGGGG

Table 1

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AAAAANCCCCCCCCCNAAAAATTTTNTTTTTTCCCCNTTTTTTTTTTTNAAAAAGGGGA
 NTTTNGGGGGGGGGGANCCCCCAAAAACCCCTTTTNGGGGGGGGGGGGGGNGGGGGGA
 AAAAAAAAAAAAAAAAAAATTTTNCNCCNTTTTTTTTGGGGGGGGGGCCCCNAAAACCCC
 CCCCCCCCCCAAAAAG

Sequence 4456

AATTACGACTCACCTTATNAGGGGGNCCGAAAATTTGGGGGAAGCCTTTCCCACCCGGCC
 GGGGNTGGGGCCNNGGCCNCCGGAAGGGTTAACCNAAAGGGGCCTTAAAAGGCCNATTTT
 TTTTAAACCNTTTTTAATNACCTTGGGGGAAAAAAAAAAAAAAAAAATTCAANAAACCCAA
 AAANGGGGGGGAAGGGGGGNAATTAAAAAGGGGGAACCNTTTAAAGNTCCAANTTCTTT
 TTTGGCCNACCNTNGGGGAAAAAAAAACCNAAAAAAAAAATTAAATTGGTTAAAAATTTTAAA
 AAAATTTNCCCCCAATTAAGNCCNTTGNCCAATTGGGTAAAACCAATTTTGGGNAAAAT
 TTTCTTTTCCCCAAGGGGGTTTAAAAAAAAAAAAAAAAAAAAAAAAAAGGNTTTAAA
 AAATTCCCCCTTGGTTGGGAATTAAATTTTTTAAAAATTGGGGGGGAAAAATTGGGAANCC
 AATTTTTTTTTTNGGAAAGGGGGGTTCCTTTTTTGGAAAGGGAAAAATTGGGGGGGGCC
 AANCCAAAAAAAAAAGGGTTTGGGGGGGGGAAAAAAAAAATTGGGGAAAAAATTTTTTTT
 TCCAAAGGGTTAAATTTGGGGGGGGGCCCAAAAAAAGGGAAACCAAACCTTTGGAAAG
 GGGGAAATTTGGGAAATTTGGGTTTTTTGGGAANTTTTTTAAAGGGAAATTTAAAAATT
 TTTTCCAAACCTTTCCCCCGGGTTAAAAAATTGGGGAAATTTCCAAATTTGGGCCCT
 TTGGGNTTGGGTTTGGGCCCTTAAAGGGTTTAAAAAAGGNTTTAAATTTAAAAAACC
 CCCCCCTTTGGGGGGNAAAAAAAAAAGGGGAAATTTCCNTTTTTGGGAAAGGGAAATTT
 GGGCCTTTTTTCCCCCCCCCAAGNCCCCCCTTTGGGTTTTCCCAAACCCAAAGGGNA
 ATTTCCCCCCCCCCCCCTTGG

Sequence 4457

AAACCTTTTAAATTAAAGGGGGGGGGGGGGGACCCGGGGNAAAAAATTTTTTGGGGGGGT
 NAAGGNCCCTTTTCCCCCAAAACCCCCCGGGCCCGGGGGGTTTNGGGGGGGCCCCGG
 GGGGGCCCCCTCCCGGGAAGGGNNGGTTTA

Sequence 4458

AAACCGAACTTCAACNTTAAATTNAGGGGGGGGNCCGAAAAAATTTGGGGGATAAGGGC
 CTTACCCCAACNCCGCNCCGGGGNTTNGGGGNCCCGGGGNCCCCCGGGAAGCGGCNTT
 AANCCTTTGTGTTGTNCTCNTTGTGTTNTNTACTNTNTNTNTNTNTNTNTNTNTNTNTN
 TNTNTCGGGGGGNGGANAATTGGGNGNAAAGATTNCCTTTATTGGGCCCTTTNCCTTGGG
 NTTCCCTTCCCCCCCCAAAAGCGCCNTTGTGGAAGAGATTTGGCCAAAGACTNGGNGGT
 GGTCNTTAACNTACGGGGGCCNTTCAAACNTTGGCNAAAACNCCNTNCCGGCTTCTTCC
 TTGGGGGNTTTTCAAAGCCAAAGCNATCTACTCCTTGCCCTCAAGCCTTCCCCNANGTAA
 GCCTNGGGAACCTNACCAAGGGCCAATTGCCGCCACCAACGCCCAAGCTTAATTTTTGT
 ATTTTTTCATAGAGACAGGGTTTNACCATGTTGGCTGGGATGGTCTGGATCTCCTGACCTC
 GTGATCCACCTGCCTCAGCCTCCCAAAGNGCTGGGATTACANAAGTGAGTCACCACACCT
 GGCCTCC

Sequence 4459

CGCCGGGGCTGGGGNCCGGGNCCCCGGGAGGGCTNACCTNTNTNTNTNTNTNTNTNTNTN
 TNTNTNTGTNTNTGGGAAGAAACCGGGNAAAAATNCTTNTTGGCNTTCTTTGTTACCGAC
 CCCCCAAGGGNCCCCGAGAAAAGTTTGGNCCAAGNTGGAGACCGNCCGGAAATNCCTTCC
 AAGTCNNTTCAAACCTNGGCNAAAGTCTTTCCCGGCNCTTCACTCGGGGNGGTTTTTTTG
 GCCGCCCCCAATTTTCTNCGCCTTGGCNCNTTCNAAAATCCCTTTNCCTTTGNGAAGGTT
 AAANCCNTTNNGGGGGGNAACCTTTAAAAAAGGGGCGNACCCNCCGGGGCCNAAAACCCAA
 ACAAACCCCCGGGGGGGCNTTTAAATTTTTTTTTTTTTTNCCTTTATTTTTTTNTTTTT
 TAAAGGTTTAAANAAAAGAAAACCCAANGGGGGGGGTTTTTTTTTACNAACCNTTGGGTG
 GGTTTNTNAAAAGNCCCCCAAGNGGNAAATTNGGNGGGTTCCCTTTGGCAANAATTTCCCT
 TTNCCCCGTGGGGAACCNCCCTTTACTNAAGGGNNGGGAATTANCCTTTNGTCCGCCCC
 TGGCCCCCTTTTTTTGGGGGACCACCCTTTCCCTCCAATAAAAAANACTTTGGGCCCN
 TGGGGGGGGCAAATNTNACCCAACGGGNGGGCCCCGGGTAGNNAAAGNCCCCCAACNT
 CCGGGGCCGGGCCNACCCNNGGNGGNCACCCCCCCCCAAAAAAGTCCCNNTTNTT
 TTTTTTTTTTTCAAAAAAANTTTGGNNGGGGGGAAAAAANCCCTTTCCCGGTGGGNN
 TTTAAGGGNTGGGCCCCNAAATTNATNCCCCCCCCCTTTTTTTNTTTAACCAAAAAAAA
 AAAATTTTNCCT

Sequence 4460

TCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGTAAACA

Table 1

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GGAGGATCCTTGCTCTCACGGAGCTTACATTCTAGCAGGAGGACAATATTAATGTTTATA
GGAAAATGATGAGTTTATGACAAAGGAAGTAGATAGTGTTTTACAAGAGCATAGAGTAGG
GAAGCTAATCCAGCACAGGGAGGTCACAGAGACATCCCTAAGGAAGTGGAGTTTAACTG
AGAGAAGCAAGTGCTTAACTGAAGGATGTGTTGAAGAAGAAGGGAGAGTAGAACAATTT
GGGCAGAGGGAACCTTATAGACCCTAAGGTGGGAAGGTTCAAAGAAGTGAAGAGAGCTA
GAACAGCTGGAGCCGTTCTCCGGTGTAAGAGGAGTCAAAGAGATAAGATTAAAGATGTG
AAGATTAAGATCTTGGTGGCATTTCAGGG

Sequence 4461

GTTAATTACGACTCACNTTATAAGTGNGNCCGGANATTTTGGGGNNAGNCCTNCCCAACT
CCGNCGGGGNTGGGGNCCGGNCCCCGGGAGGGCTTAACGCCTGGGTGGNTTTNCAAATN
AATTCCCCCTNGGAAAAACNTNGGCCACTCCATAAGNGGNAAAATTAGNCCTNCCCATTG
GCCTNAAAAAACCTGGGTTCCTTTGGGGGCCTTANANAAAATTAACCAAAACNCCAGGTT
GGGCNCCAATTCCAATTTTCCCTTAAAATTCAAGGCAACCTTATAATTAAANACCACANA
AAATGGGTTCCTTTTTTTTTTANAAGGGGTNAAAATTGGAAGGTTTAAAGNAAATTGGGGC
CNTTGGTGGGTTTTTTTAAAGGGGTTTTTTTGGGTTCCAAANGGGNAATTTTTTAACCTT
TTTTTGGGGGAAATTTTCCTTCCCCCTGGCCNTTTTTTAAAAAGGGAACCCCCCAAAA
AAGGAAAAAAAGGGTTTTNAATTTAATTTTGGGGAAGGGTTTTTTTTTTTTTAAATTTTT
GGGAAATTGGGGAATTTTNCCTTAAATTGGTTGGGTTTTTTTTTTTTTNAAAAACCAAAG
GGAAAGGGTTTGGGTTCGGGAATTTAAAAGGGGGGGTGGGAAAAAATTTTTTAAAAAA
AACCCAAATTTAATTTTTTAAAAAAGGGGAAAGGTTTTTCCCTTTAATTTAAAG
GGCCCAAATTTCCCTTTGGGTTTTTTCCCAAGGGAAAAAANAAGGGNAAATTTTTAA
ATTTAAATTTAANCCCTTTAAATTTAACCCAAAAAACCCTTTAATTTTTTTTCCAAA
AAAGGGGTNCCCAATTTTAAANCCCAAAAAAACCCTTTAATTTTTTTTTTTT
TCCNAATTTTTTGGGGTTCCTTTTTTTTTTCCCAAAAAAATTTGGGGAAGGGAA
AAAAGGGAAAAANTTCCCCCTT

Sequence 4462

GAATTGGAGCTCCCCGCGGTGGCGGNCNGGTACCGCACACAATNGTATGCGCTGCACTT
TNATCTGACTGGAAGCACAGTGGGCTTACACTCANCATCAACACACACACGCTGCATAC
AGTACNCTTGACGTAACAGGCGGGACGGCCNAATACTCCCTAGTGGGGGACCANTCACC
TTGTATTTTCTAAGGCCCCCNATTTTAATTAAAATTCCTTCCAATTGGGGGGANCNTT
ACCTTGGTTTTATCCAAGAAATTGTANGCGATTCCCCAACCTACTNNTGANACCCCAAG
AGAAAANCCATTGGATTGGGGAAGGCCAACCTGGGGACCATAGTTTAAANAATTTNTC
CTTGGGGAAATNTTTTGGAGCAAATTGTGGGGGGGNAAACCAATCCAAAAAATTT
CACAAGTCCAACCCAAGGCCCTTTTTTTGGGGGCCACGCGGTTCCTTAAANTTCTAA
AAGAAATTTNAATAGGNAANGGTAAGAAAAAAGGNCCATANCCATTAGAAAANAAG
CCAATTTNTTTGGAAAGTAAANACAACCAAGGNAATTAACCCAGGGCAAGGGGGGGCC
CATTTATGANCCAACACCTAACTAGCCAAGGGNAAAAAA

Sequence 4463

CTCCCGCGGTGGCGGCGAGGACTGGGCTGATCAGCCCATGCCTCTCCCCATCCCTCCAGC
CTTATCTGTCATCACCATCAACCCCTCCCATGCACCTAAACAAAATCTAACNTCTNGGTT
AANTGTNCACCTATGGAAAAACNAATTGGTTCCAAGGGGGGCCNNATTAAACCCAATTTT
TTAATTTTTTCCCCCTTTTTTTCCTTTNGGGCCCCCTTTNGGGAAAAGGNAAAAA
GGCCCCNTTTTTTCCCTTTTTTTNCCCCCTTTTTTTGGGGGNTTANCCCTTTTNCCN
TTTTTTTTNAAAAAATTTTNCCCTTTTAAAGGGGAAAAAATTTNNGGGAA
AAATTNNGGGTTTAAAAAANGGGNNTTNTTTTTTTTNGGGNAAAAAATTTTA
AAAAAGGGTTNTTTTNGGGGAAAACCCCTTTAAANTTNCCCTTTTTTTAAACCCNTT
TTTTCCCAATTTNNGGGCCCCAAAAAANGNTAAAAGGGGGGGGNANCCNAACCCA
ANTTAAATTTGGGAAAGGGAAANNTTNCCAAATTCNAGTTGCNAAACCNAATTTGGGA
ANGGAACCCANGGGCCNAAAACAATTTAACCTTAATAAAAAAGGATGGGTAAAAAAC
TNTTTTTGGGAATTTTNAATTANAAAGNGAAGGGGTNTNNTNAAGCAAATTAANA
TTTAAATTAATTTGGNAAAATAANTGGGCCCAANACGGNTAAGGCCCAANCCAAAGG
NAAAGGNNGGGGNAANAATTNNGGTNTTTTTANTNNGGGGGGNGGGNCCAACCCGNGTT
TTTTTTGGGGGTNAAAANGGGCCCCCTTGGGGGGGGGAAATTGGGTNGGNAAAAGGN
CCCAAAAAAGGGGGGCCCAAGGGGG

Sequence 4464

GCCGTTAATACGGAACTTTCAACNTTATNAGGGGGACCGAAAATATGGGGTAAGNCCTNC
CCNACNCCGNCCGGGNTNGGGNCCGGGNCNCCGNCNCCGNGGGNCCAAGGGATNAACC

Table 1

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TNTNTNTNTNTCTNTNTNTNTNTNTGTATNTNTATNTATNTNTNTNTNTGTTGNCCTN
 TNANTAACGANAAAGNTTTTAGGGGCTNACCACACTATNTNCNCCANAAAAAGNTGGNCA
 TNGNGGNANGCTNTCTTAATNGCCNCCACANGCAAANTTTTATAAGGNTNGGAACCTTCN
 CCCNTGGGNTNTGNCCAAGGTTGGGACNCCAAAAATTAAGTCCCCTTGGAATAATTTT
 TTTCCAAAAAANGGTAAAAATTAANCTTAAAAATTTTTTTTGGGCNAAAAAAACCTT
 TTTTTTCAAATTGGTTAAAAAACCTTCCNCTTTTTTGGNCCCTTNGNAACCCCAANTN
 GNCCCCCTTTAAAAATTTTTNTTTTTTGGGTGGGAANTTTTAAGGGGGGAAAAAATA
 TTNCCTTGGGNGGNTTGCTTTTTTAAATTTTCNNCCCCAACNNTTGGGGGGNAGGGNGNNA
 AAAAAAANGNGNTNGGGTTNCNTTTAACGANTTNTTNCAAATTTAAATTTTTTCCTTT
 AAAGAATTGGGGGGGAAAAAATTTNCAAATTTNCCAANCNTTTTTGGGGGGNNGGNA
 AGGGGGGGNTTGGGTTTTTTTTTTGGCCAACCCAAAAAAACCAAANTTTCTTNCCTT
 TACCAAAAAGTTTTTTTTTTGGGTTTTTTTTTAAAAAATAATTTTAAATTG
 GNGTTTTTTAAGGANAAAAAANTTTTTAANAAGGCCAAAAAATAATTTAANAAC
 CCCGCCAAAAATTTGGGGGGAAAAAATAACCCAAAAAATAATTCNTNAAAAATT
 TTT

Sequence 4465

GTAATACGNACTTCACTTATGAGGGAGACCGAAAAATATGGCGTAGCCCTNCCACNCCGNC
 GGGGCTGGNGNCCGGGACNCCGNAGCGATNACCTNTNTNTNTCTTGTNTATATCTCTTGT
 GTGTATGTGTNGGTNGCCAGGNGAAAAAGACATTANTGCNTNGNAAATNCCTGGNAATNT
 GCCTNTNCNACCAAGGCNTATNGGCNTTTACGCCCCCTTANCCANANCNTNTTAAANT
 TANANGNCCGCCCTTTTCCAACNTTAAAACCCCCNCTTGGTNATNGGTNAATNTAAAAA
 CCTTGGCCAAAATTTGGGCCCTTAAAGGCCCCCCGGGGNCCAATTTTTTTAACCAACC
 TTTCTTTCNAAAAAAGGGAATTTNTTAAACCCGGNCCCAANTTTTTTAACCCAAA
 ATTCCCAAAAAAATAACCAACCTTNTGGGTNNCCAATTNAATTTNAATTTAA
 AANCCCAAACNTTTTTTTTTTTTCCAACCAATTNGGGGGGGAANAAAAATTAANAAT
 AAATTTTTTGGGGGNTTGGGGGGTTTTTTTTTAAAAAGGGGGGTTTTNTTAAACCAAAAA
 ATNTTACCCCCCTTTTTTTTGGGAAAAAGTTAAAGACAAAANTTTTTTNCNAACGGGT
 TTTTNAATTTNTTAAANGGATTTTNAACCCCNAAAAAATAATTTGGGCCCTTTAAAG
 ANGNAAACCCAAAGGGNAAATTTTTTGGGGAAAGGGGGGGTCCCTTTTCAACAAAAA
 ANGGTAAAAAANGAAGGGGAAAAAACCTTTTTTGGGGNAAAGGGAAAAAATAATTTTT
 TAAATTTGGGTTTTNTTTTTTAAAAAAGGGNGGGGAAACCTTTTTTCCCAACCCAA
 AAANAATTTAATTTNGGGAAAAAGGCCCAAATTTNAAANANTTTTTTGGGTTTTTTAA
 GGGGAAAAAATTC

Sequence 4466

GTAATACGAACCTCACTTATAGGGGNGNCCGAAATATGGGGTAGNCCTNCCACNCCGNCGG
 GGNTGGGNCCGNGNCNCCGGCNCNCCGGGGNCCAGGGGNTNACNCAACNTTGGCCACCTN
 CNCCAAGNCNCTTGGGNGNTNGNAACCAGNAAGNTTGTAAAGGNAACCTTCNCCGGTTCC
 TTCNCCAAANAAAAAATAACCTTTGTGGGCCTTTGGTNAATTAATNTTAATTTNTTN
 TTGGCNCCTTTTAACCAAGGTTGGGGNAATTCCAATTTTCCTTAAGNTTANGNGGAAAAA
 GGGGAACCAAAATTAAGGNAATTTTTTTTTTTTAAATTCAAAAAAATAATGGTTGGTTC
 CCAATTGGCCCCAAGGTTNAAAGGAAAGGNAATTGGGTTTAATTTAATTTTCCTTTTTTT
 CCTTTNNATTTTTTCTTTTTCCCCCCNACCCCCAAAAAATAATNAAAAGGCCTTTA
 CCCCAANTTAATTTAAGGGCNTTTAAATTAATAAGGGTTCCTTCNAAAAATTTTTTTTN
 TTGGCCCCNTTTTTTTTTTAACCTTAAAAAATAATGGGTGGAAATTTGGTTTTTTTTNC
 CTTGGGTTTTNCCAATTTTTTGGTTGGGGTTAATTGGCCCTTTTCCAAATTCCAACCCCT
 TTAAATTAATTTTAAAGGGGNCNCAAAAAAANTTTCCCAATTTTTTTTTNTTTTT
 CCCCCCTTTTTTGGGTGGGCCTTTAAAAAGGGGGGTTAAAAAAGGGAATTTTTTT
 AAAAAATTTTTAAAAAATAATTAATAATTTTTTTTTTGGGGGGCCCCCTTTCNNTT
 NCNAATTTAAGGGTTNTTTTTTCCNTTCCTTTTCCTTCCTTTTTTTTAAAAAAGGG
 AAAG

Sequence 4467

GCGCGCGTAATACGAACCTCACTTATAGGGAGACCGAAATATGGNGTAGNCCTNCCACNCC
 GNCGGGGCTGGGGNCCGGGACNCCGGGAGNCCATNTNTCTNCCNCCAGNGAGGNATNCC
 TNCTNGNTGGNCCATNCCCTNTTTATNGGTNGGCCTNTNCNCCCTNGGTNGNTNGNTNGG
 TNGNGNAATTANTNTNTCAAANAGCGNGTGGCCTTGGGTAAAAAATGGTCGTCCAAANA
 NAAAACCAATNGGTTCCAACNTTAACCTTTTAAGNAACCAATTTAATTACTNTTGGTNCN
 AATTCATCTCGGCCTTGGGTTTTTNCCTTAAGGGTNGGAATTNGGTTTTAAATTTTNA

Table 1

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TTNCTTTCCCCATTTTTTTTCAAAAGCCCAANNAAATTGGTTGGTTNGGGGCCCCNTCCA
 AAGAAAATTGGGGGGTTAAAAAAGNNTTCCAAAGGCCAAAGNCCCCNTTTNNTCCTTTT
 AAATTTTTTNCATNCAAACCCCTTACNTTGGTTAATTCCAAATTCCAAAGGGGTACACC
 TNTGCCCNCCAACCCCAATTGNCCAANNAAATNNCCTTTTCCCCNTGGGGGGTTCNTAC
 CCNCNTTCCGGGGGCTTNGNCCAAGGCCTCCANCCAACCAAAAAAATTNCCTTTCCN
 CNCCCCNTCCCTTNGGTATTTTTTTTCTTTCCCCCCCCCGGGCCGGTTTAACCCCTTCC
 CGGGGGCCACCCGGCTTTTCTTTTAAANGNAAAACCTTTTAAAGNGTTTGGGGGGGAAN
 TACCCCNCCCNCCCGGGGGGGGCCCTTTGGGCCAAAGGGGGGAAAAAATTTTCCCGNNN
 AATTTAAATTTCCAAAAAGGGCCCTTTTAATTTCCGGGAATTTAACCCCCCGNTTNCNG
 GAAACACCCCTTCCNGNGAAGGGGGGGG

Sequence 4468

CGCCGTTAATTACCGGAACCTTTACAACCTTATTAAAGGGGNGACCGGAAAATTATGGN
 GTAAGCCCCCTNCGCCACNCCGNCNGGGNTGGGGNCCGGGTCNCCGTCNCCCCGGGGGNGN
 CCAAGNGNTTNANCCACGTGGGCAAAANAATTAACCTTAACCTNGGGGNAAANACCACAN
 ANANTTTNACATGATNGNTNATGCAANANANCCANGANACNCCANGNAACTCCAAGANA
 AACTCAATTAACCATTTGTCTTGNAAATTTTCNCCCCGGTNTCATCCAATNGTAAATAN
 GNGCTACTCCAGCCCGGCCCAAAGAGTCCGNGAGTCCAAGNGTCNAAGNCTCNAAGTCCC
 CAACCAAAAAAAGGGGNGGAANAAGGGGGGGGCCCCCAAANTGAAAGGGGNAAAAG
 NTTTGGGCCTTTANTGNAACCCCNFTGAACCCGCCCTTAAGGGGGCCAACCCCAAAGNG
 GGGGGGTAAGGNGCCNGGNGGNGTAANAATGTGGGAANGAGGTGGCTAGGCAAAGGNGT
 CCAATGGGGAANGAAAGNTTTTCCCAACCTTTGGGGTNGGNAAGGTAAGNNCTTCCGTA
 ACNAAAAGGAGGCAAGGTAAANNTCNTTGGCCTTTGGCCACCCAANAAAACCAAATTT
 CNTTNANCCAANTTTTACCNATTTTNTTAACCCCCCGGCCCAATTTTTTTTCNAANCC
 AAAGTNAAACCCANNCCAAAGTGGGCCCTTTTTTGGGGGGGGGGGAAAGGGGGGNTTT
 TAAAAAGNNTTTAANANCCCTTTTTNGGCTTTTCCCCCCAAAGGNAAACCAAATTTA
 AAAAAAGGTTTTTGGGGCCCCAAAAGNNTTNAAGGTTCNCCAATGGTTNCCAAAGTTGG
 NAAATNTTCTGAAAACCCCAAGACCTTTTNCCAAANGTTGGCCCCCTTNAATTTAAA

Sequence 4469

ATACTGCACTTACACTNATNAGGGNNGNCCGGAAATNTGGGGTAAGNCCTTCCCAACNCCG
 NCGGGNTNGGNGCCGGGNCNCGCCGGGNGNCCAAGNGGTNACCTNTNTCTNTN
 TNTCTNTNTNTNTNTATNTNTCTNTNTNTNTNTATNTNTNGGGCTNANAATTAAA
 TATNTTAAACCTTTTANANANTNATCCCCANCCAACCAAGATANAAGANAAANANTNGG
 CCTTATCNCCTTAAGANAAGNCCTTGGAACCTTGGTTTTTNTTCTCCACGTTTANANGAG
 AAAGNTTCCANGNCCANANTTAANTTTTAACCCCAACCAAGGTTTTTGNGGGGGNAACCC
 ANCCAAAAAATTTANTTGGGGGGAAAAATTCCTTTTTTAACCTTAAATTGGNTTTTTTG
 GNCCAAAAAAGGGGGGGACCCCAAANANATNATANGGGGGCANCNCNTTAAAAGGNAA
 AAAAATTTATAAAAAAGGGGGGGAAGANAAAAAGNGTTNGGCCNAACCNAACTTTCNA
 AAAAAAATAAAAAAACNTTNGGTTCCAAATTTCCAAGAAAAATTTTTTTNGGATAAAG
 GGCTTTTTTAAGGACCTTCTTGGGGGNAAAAAATAAATTATTCCCTTNGGTAAANTT
 NTTTTNTTAAAAAAACCNTTTTNAACCTTNAATNTCTTNTNCCCTTAANTTGGGA
 AATNCCCCCCCACGACNAAAAGNAGCCCAATTTTTTCCAAAANTTTTTTTNATTTNTTTT
 TAAAAANCCAAAAANNAATGNNAAGGGGGNGNTTTTTTTTANTTTTTTTTNAACNANAAA
 GNGGGGNAAATGTGGNTTCAAAAAAATAAAAAAANTTTATTGTGGGGAAA
 NNGGGGGGGGGGAAAAAA

Sequence 4470

AATACGGAACCTNCAACTTTATTAAGGGGGNCCGAAAAATTTGGGGNAAGNCCTTCCCAA
 CNCCGNCCGGGNTGGGGNCCGGGNCNCCGNCNCGCCGGGGNCCANGGGNTNANCCTNGN
 AAGNGNCCTTGGTTAATTAACCANGNCGCCAACCAAGGGCGCCTTCNTTCTCCCGCAATT
 CNCNCNTTCNCCAAGNCNCCTTTNAATNCCTNGNTNCCAATNCCAACNCCAATTCCACAN
 CNCCCCCTTCNCNCCATTGNCCAACCCCTTAAAAACCAAANAAAATTCCTTAAACNT
 NTTGGTTAAATTTTCCCTTTTGGGAAAACCAATTGGTTCCAAGGGGCCAATTAACCAAT
 TTAAATTTTCCCTTTTCTTGGGCCCTTGGGNAAGAAAAAAGGCCCTTCTTTTCC
 CTTTTGGTTCCNTNCTTTTAAAAAANTNCTTNAAGGNAAAAAATTGGGAATTNGGTTA
 AAAAAAGGGTTTTTTTTTTTGGGAAAAAATTAATAAGGNTTNTTGGGAAACCTTTAAATT
 NCCTTTTTTAAACCTTTTTTNCCAATTTGGGCCCAAAAAAGGGNAAAAAGGGGGGGGG
 AAACCCAAACCCAAATTTAAATTTGGNAAAGGNAAAAATTTTCCAATTTTCCAATTNCC
 AACCCAAATTGGGNAAAGGTAAACCAANGNCCAAAAAATTTAATCCTTTAAAAAA

Table 1

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AAAAAAGGGTTGGGNTTNAAAAAATTTTTTTTNGGGAAATTTTAAATTTAAAAAAGGGA
 AAGGGGTTTTTTTTTAANGGGAATTTAAAAAAAATTTAATTTAAATTTGGGAAAAAA
 AAAAATTGGGGCCAAAAAAGGGGNAAAGGGCCCCCAACCCAAAGGGAAAGGGGGGGGGG
 AAAAATTGGGGTTTTTTTTTAAATTTGGGGGGGGGGGCCCAACCCGGGTTTTTTTTTG
 GGGTTNAAAAA

Sequence 4471

CCGCCGTTAATACCGGAACCTTCCAACNTTATTAGGGNGAGNCCGAAAATTTTGGNGTAA
 GNCCTNCCCAACNCCGNCCGGGNTGGGGNCCGGGNCNCCGNCCNCCCGGGGGNCCAGGGN
 TTANCCAATNCCGNGNAAGNCCGNTNGGCCCAAGNGNCCTTGNCCGNTNTNCNCCGNTNC
 NCCTTTTAACCGGAAATTGNAAAAAGNAACNCCAACCGNAATTGGCCANGNTTTTTTCNC
 AAAAAACCAATNTNGGCNCCAACCTTANCCAATTAACCAATTGGGGNAAAAAGGTGGNA
 AGNGGGGGGGGNAAAGGCCCCCAAACCCCCCAAGGAAAAAAATTTGGGGGGCCTTTTTTCC
 TTCTTTAAATTTCCCTTGGGGGGGGAATTAACCCCCAAAATTTAAAAGGCCCCCAACCCA
 NAGGAAAGGGGGTTTGGGGCCCAATTTGGGTTGGGTTNGGAAAAAGTTTTTGGGCCAANG
 GGGGAAAAACCCTTNCAAATTAAAGGCCCTTGGGGGGAAAAACCTTTGGAAANGGGGGAA
 AGGGGGGGGGGGTTTGGGAAACCTTTGGGGGGAAAGGAAAGGNGGGGGTTTGGTAAGGG
 GGNTTCCAAACCAACCTTGGGGGGCCCNANGGNTTTAAGGNAAAAGGTCCNCCCCCAA
 TTTAACCCAAAGGGGCCANGGNTTTTNCCGGGGGGGCCCTTTGGGTTNTTCCCCCTTT
 TTTTNNCCAAAAGGGGGTCCCTTGGGNAACCTTTCCCAAANAAAAAAGGGGGGCCCN
 TTTGGGAAATGTGGGGAAAGGNGGGCCCTTTTTTTTTTAAAGGGAAATTTTTTCCCCCAA
 GGGGNGGGGGTAAAGGNGGGGGGGCCCCCCCCGGGAAAGGGCCCTTTTTTGGGCCCAAA
 AAAAAATTTAATTTTGGGAAAGGGGGGAAAGGGAACNTTTTTTAATTTTTTCCCCCA
 AAG

Sequence 4472

GCCCCGCGGTGGCGNCGAGGACTTTATTTTTTTTTTTTTTTTTTTCTTTATATATAAT
 ATTCAACTTTATTTCAAATATACCAATTTTAAAATTTATCCAATGATTAGCCCCCATNTT
 ACCGAATCTNCCTTTNTNCCTCGGGAAGGTTGGNAACCAATTGAACCCCCCAACCCAANC
 CAAAAANAAATTTTTTCCCAAGAAATTTNAACCCGGGGGGGGGAAANTTNNTCCCCCTCTC
 CCCNTTAAAAAAAAGGGGAAAAAAAANTTTCCCCCCCCCTNGNCCNTTTNTNAAANG
 GGGGGNCCCCTTTTAAANCCNTTTTTTTTTTANCNAAAACCCNTTTNNCCAAAAAAAAN
 AAGGGGGNTTNCCNTTTTTTCCNTTTGGGGGCCCCCAAAGGGGNCCCCNTNNGGGGNCC
 CCCCCNTTNGGGNNCCCAAACCCCTTTNGGGGTGTTGGGAAAAAAAAGGGGGGGGN
 CCCCTTTTGGGGCCCCCAAANACCCCCCAAATTTTAAAGAAAAAAATTTNGCCCGG
 TTNGGGGGGTCNNCCCTTTTATCCTTTTTTTTTTACCCAAAACCCCTTTTTTTTNCCTTT
 TNCCCCCCCCCCCCNCCNAAAGNAGGGNGCCCCCCCCCTTTGTTTGGGGGGGAAAAAAA
 AGGGGGGGGGGGTTTCCCCCCCCCAAACCCCTTTTNTTTGTTGGGGGGNCCTTTTTT
 TTTTTTCCCCAAAAAATTTTGAAGTTNCCCAAANANANCCCCNAAAGGGNGNAANG
 NGCCCCCAAATTTNCCCAAATTTNGAAAAAAAATTTTTTNCCCCCCCCCTTNGGGGG
 GGGGGGAAAAAATTTGGGGNAAACCCCTTTNCCCCCCCCCCCCCGTTTGGGGNCCCN
 AAATTTNAAACCCCTTTTTTTTGGGGNTNATTNGGGGGNTGGGGGGNCCCCCTTNGGGNC
 CCTTTTTTTGGGGGGG

Sequence 4473

TAATACCGGAACNTTACACNTGATNAGGGAGACCGGAAATATGGGGTAAGCNCCTNCCC
 AACNCCGNCGGGNTGGGGNCCGGGNCNCCGNAAGCGCTNANCCNTNTNTNTNTNTNTN
 TNTNTNTNTNTNTNTATCTNTNTCTATNTCTNTNGGGCGNTNAATTGNNAACNCCAAACG
 TNTNTTGCNCTCCACCCACACTTTTANTTATGCCTAGGNGGCCTTCNCCANAAGANANA
 NANAGANAAAATTCACGNTNCCGNAAGTCCCCANGTTTTTTTGGGGATNTGNCNCNGNT
 GGGCCTTTTCNAATTGAGNCCCCGGGGTTGGCCCCCAACCAAGAAAAATTTANGGCCCT
 TCCTTGGGTTGGGGGGGGTTCCCTTCCCCGGAATTCCCAAAACCGGCCCTTTTCNAACAAA
 AGGCCCTTTTTTAAANTAAATAATTGGNCCAAGGGGGCCANAACCAACCCCTTTCTANT
 TGGGAATTCCAAGGGGGGTAAAAAAATTTTTTTTTTGNAAACCCGCTTAANGGTGGAAA
 TTGGGGGGAAAAANTGGGNCCCANCCGGGGGNCCCNAAATTTTTTTTAAACCAACCCCTTC
 CCAATTGGNNGGTTTTNCCGGCCCAATTNTTTTTTTGGGGAAAAAAAAGGCCCTTT
 AAAACCCAATTTAATTTGGGAAAAAAGGNAAAAAGGGAAAAATTTNACCCCCCTTTTTGG
 GGNAAGNNTTGGGNTTGGGCCNTTCCAATTTCCCAAAGGNAAAAGGNAAACCCANGGN
 AATTTTTTTTTTTTTTACCAAAAANCCAAAAGNGCCCNANTTNCNTTTTTTGGGNTNAAAA
 ATTTTTTTNAAAACNCCCTTANAAAAAAAATTNCCACAAGGNAAATTNATTTAAAAA

Table 1

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TTTTTCCCAATTNTTGGGGGGGAAACCCCCCTTNGTTTTTTTAAAAAACCAAAATTTA
GGNTTAAAAAA

Sequence 4474

TACGNACTACACTNATTAGGGGGNCCGGANATNTGGGGTAAGCCCCTNCCCCACCGCCGN
CGGGGGTTGGGNCCGGGNCGCCGNAGNGCTNANCCAAANAAGGNAAGNTNAAGNCCTTGG
CNCCCCCTTTTCTNCCAAGGGGGGCCAGANAATTGCAATTGGCCTTTTTCGGNAAGAA
AAAACCAATTAACCTTTTTTNGGGGCNCCAATTTTAACCCCCCCCCCAAGNCCTTTTTTNGN
AAGNGGNAAAAAAATTGGGGGGCCTTTTGGGGAATTGGAATTTTAATNTTTNTAATCGG
TTTTTNTAAGAGGGGACCCCCCNCCAAACCCCTTTAAGGGCCAAAATTTCCCTTAACCC
CTTTCTTTTCCAACCCCTTGGNACCCCCCTTGGNCCCCCCCCCAACCTTTTGGGCCCCANT
TAAAAAAAACCTTTTAAAGGCCNTTAAAAAAGGTTNTTTTTTGGGTTTTCTTATTGGG
TTTTTTTTTTTTTCCCAAGGCCCGGGTTTTTAAAAAATTGGGGTTAAAAANAANGNGGGGGG
GGCCCCANGGTCCCAAGTTTTTGGNCNCCAAAAAATAATTTAAAAAATTTN
CAAAGGGAAAGGNNAATTTAAAAAAGGGCCCTTTTTTAAGGGGGGGTTTCCAAAAANA
AAGNNTTTTTNCCAATTTAAAGGNAAAAGNTTTTTTCCCCCCCCCAATTTGGGAAAAAA
CCCTTAAATTTAATTTGGGGAAACCTTTGGGGGCCCCCCCAACCCAACCCAAAGGGGGGA
AATTTCCCTTTTTTTTTTTTGGGGTTAAATTTTTTTTTTAAAAAGGGGGGGAATTTTCCCT
TNGGNAAGGGAATTTTTTTTTTTTGGGCCTTTNTTGGNAAGGCCCAAGNGGGGAATTTT
TAAAGGCAATTTAAAAAGGGGGGCCTTTGGNTGTTCCTTTTTTTAAAAAATTNNGGT
TCCCTTTGGGAAAAAA

Sequence 4475

CCGCGGTGGCGGCCGAGGTACATCTAGCCTGAGGCAACCTCCACGGAAGAGCCAGGGAAA
TAAATGCTCTGCCTTCCAGTCCTGTGGGGACTGTTCACTGTGTTATGGAAGGGGTCCCGA
ACATCCCGGGCCATGGACCAGTGAGCTGCGGGCGAAGTAGCACTCACTGCCTGAGTATTA
CTGCCTGAGCTTCGCCTCCTGTGATCAGTGGCGGCATCAGATTCTCACAAAAGTGCAA
ACCCTATTGTGAAGTGTGCATGTGCAGGAGGGATCTAGGTTGCACGCTCCTTATGAGAAT
ATAACTAATGCTTGATGATTTGAGGTGTAACAGTTTCATCCCCAAACAATCCCCCACCG
CCTCACCTACTCAATCTCTGTAGCATTCCACAGTCTTTATAGCAACAGAATACCCCC

Sequence 4476

CGCGTTAATTACGACTCACTTATAAGNGNGNCCGGAAATTTGGGGNAGNCCTNCCACNCC
GNCCGGGNTGGGGNCCGGGNCNCCGNAGNGCTNACCAAAATTAAATNTGGNCNTGGGGG
AAAANCNCCTTGGGNGNAAGGGNCCGGGNAAGNGGTNTGGNCCAGNTTGGAAACNCCAAA
AGGAAATTTNGGCCANCCCCAACNTNGGCNAACCTNCCCAAGNCCCCGNGGGGGGTNGGA
ACCAAGNAAAGNTGGGAGGGAACCTTCCCCGTAACNTGGGANAAAAAATNATAAAATTAA
AAAACCAAAAAATTAAAAAATTAAAAAATTAAANAATTAAAAAATTAAAAAATTAAAAAAT
TAAANAATTTATTTTTTAATTNNGGAAATTGGGGTTTGGNAAAAGGGGGGGAAATTTGGG
GNTTAATTTAAGGAAAAAATTTNNGGGGAAGGAAAGGNAATTTTAAATTTNCTTTTTTAA
CCTTGGGAAAAACCAACCCCTTGGGNTAAAGGTTGCCCNCAAGGACCTTTTTTTTTCCN
TTCCTTTGGGGGGAAAAAAGGANTNNGGGGTTTGGGGGGTTNAACTTTTTTTTTGGGGA
AAAGGGCCCCAAGGGGGGGAAATTTGGGTTTGGGCCCCAACCCAAAAAAGGGGGGGCCCA
AAAAATTTTTTGGGNAAAAAAATTTGGGCCCCCCCCCAATTTAAAAATTTTAAAGGNT
TTTTTTNCCTTTCNAAGGGCCCTTTTTTTTGGGGAAAAAATTTAANCCAANCCTTTAATT
TAAAAAAAACCTTCCCAAAGGTTTTTGGGGGGCCCCCTTTGGGAAAAAAGGGGGGAAAGGG
GGGGAAAAAATAATTTTTTTTTTNAAGTNAAAAAAGGGGGGAAAAAAGGGCCCTTTAAC
CCTTTAAAAAATAAAGGNAATTNCCTTAAAAAATTTTTTTTTTGGGAAAAAATAAAC
CTTTANCCCCAAAAAATAAAGGGCCCAA

Sequence 4477

AGGTACCAGCTGAAGCACTTCAGCGTGAACGCCACAGAAGTGGCTCCACGGCTTGTAACC
TTAGAAATCCCCANAAATCTCCTTGAACAGACCTGGGACAGAATGTGCAATGTCTT

Sequence 4478

ATACGACTACTATAGGGNNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGTTCAGC
CTGTGATCACTTCATTCCNNTCAATTTATGGGGCCGAGACTTGTTACAACAATGGCATGC
AGAGATTACTATCCCAGCCTCCCTATACAGCCCCAGGAATAAAAAAATCATGACTAAAAT
GGGATAGCTCCCTAAAAGGGACTAGGAAAGAAGTCCCAATTGAGGCTGAAAAAATCAAA
AAAGAAAAGGAATAGGGCATCCTTTTTTAGGAGCGGTCACTGTAGAGCCTCCAAAACCCAT
TCCATTAACTTGGGGGAAAAAACAACCTGTTTGGTAAANNATCAGCNCTTCCAAAANA
AAAACCTGGGANGCTTTACATTTATTAGCAAAANAACCTTTTAGAAAAAAGGGACNATT

Table 1

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TGAGCCCCTTNCATTTTTC

Sequence 4479

AGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTCTGCGGCTCACCTTGCTGCAGT
TGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGAATTTGGAAATTATCTGTCTGGA
AGCTCTGAGTTTATCTTGGGACCTCAAGAGGAGAGGATCACCCAACCTCACAGCAATCAAA
CTCCAAATGGTGTATAAACTGAACCACACATGGACACGTCAGTCTTCCGAGGACCCTTA
GATCAACCCCAGGAGGAGCCCTAGCTGCTGTTCCCCATTCTGACGCCCCCTTCCAGCAGG
AAGTAGCCAGAAGACATCGTCNCCCAAACCTCTAACAGCAGTTAGTGCGGCATCTCCACA
GGGGAATGTTGTAGGAGTTATTGATAAATTA

Sequence 4480

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTATAAAAACAGCTATATTTTGGCACTC
AAGAGGCAAAAGCTAATACAGATGATGAAAGAACACAAAGAAAATAAGATTTGCCTATTC
AAAATGGTGCCTCGGGCAGGTCTGTNTCCANAAGAGGATGTTTCATCCAGGGTCTGGGGC
TAAGGTCATCTTANCACAGCCCAGCTGCCANCTTNCCTNCTCTGCCGNTTCCCTTGAACA
CAAGCCAGCTTCCCTTATCTAACCTTCTTGCCCTGTAAAAA

Sequence 4481

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAAAGAAAATGAAACAGGCAAA
TGATGAAATGTGGATCTTTTTTCATTCAAGAATATGGAACTCATTGGACTGAAAACCCA
AATCTTCATTATACCAAACCTTCTATAATGATCTTAATGGTAGTTAGCTTTAAAAAACAC
AAAATAGGCTGGGCGTGGCGGCTCAGGCCTGTAATCCCAGCACCTCGGGAGGCCGAGGTG
GGTGGATCACAAGGTCAGGAGATCGAGACCATCCCGGCCAACACAGAAAAACCCCGTCTC
CACTAAAAATACAAATAAAAAATAAAAAANATNNTTAANAAGTACCTGCCCCG

Sequence 4482

CGAATTTTAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGAAAATAAGAAAGGGTTCCAAA
ATGAAGNTTCGCTCCTTTTGCAAACCTTATGGTAACAAATATAATATTTATAAAAAGTGA
ATTAGGTAATATGTTAATGGAGAAATAAACATCATTATGAAATGCTATCTTAAACAAAA
ATAAGAGAAAATATTAGTTTAAAAATAGAACTTATAGTCGATTTAAAAAAGCAAGACCAA
ACTCTTAGCTATGCACAAGAAAGTTACTTTACNCATTCACAAATNTTAAAGGATGAGAAA
ACATGGGTTATGAAAATATGAACCGAAATGAAGCCTATAGTTGCCTGGGCCAAATTTTNC
AGACCAAAATNNGACCCTTCNGAAAAAGACTTTTTAGGGACCTTTAACAGGGGGNATTTT
TCCATTNNGGATTAAAAAGTTTTCCCACTTTTTTTTTTTTAA

Sequence 4483

AGGTACTAAGTTGCCATTTAAGAACCTCTTCAGGTTCCCCGNCTCCTTGAGCTATGAAAG
TTTTCATGAACACTTCAGTTTTAATGGCATGCCAANCATNTTGTTCATTGAGCAACTG
CAACAGTTTTAAAAA

Sequence 4484

NCGCGGTGGCGGCCCGCCGGGCAGGTACNGCGGGGGGGCATCACGGACCTACCAATATGT
GATGTCACCCCTGGTGGCCCAGCTGTGTCTATGGAGAACTCCAGCTGGGCCCAGAGATTC
TGCAGCGGGAAAATCCAAGGTCTTATTTTTATGCCANGNCTTGAGTTGGATTTTNGGCC
CAGTTCAGGNAAAGCTTTCTGNNGCGTTTNNGCCTGGNCCACNGATTATCATACCTAATA
TTNNGCTTTTGNTCCATTGNTGGTAANGNACCAGACATTATTTCTANAGNTTNCTTTT
NTCCTGTTGGGAAAANACNTCAAGGANAATTTGGAGTTCCTGTTGNGGCANAGNCATCTC
TTNCGTAGNGAACAAGTANACCAATTGTTNNGGNAATTGGGGTTGAGNAAGCCACCCCTT
TNTACNTAATTAACCGGAACCTTTNAACAAGNGNACCANGTCCATAAATTGGGGNGGGC
AAATTTTCCAANTGGGTNCCCTNGTTTTGNGNNAGGNCCNTANTNAANAAAACCCCCCCA
A

Sequence 4485

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGACATACACTATTT
TTCTTAAGAATTCTATTCTCTATGTCTCTATGTAGGAGAGGAAAATGTTTCTTTTCTTAC
CCATCAGTTCGTGGCTGAGATCCCTATAACAAAAGACAGATTGACAANGAGAAAAGCATA
TAAATTTATTTTAATGTAGGTTTTAAGTGACCCAGGAGCCTTCAGAAATGAAGACCCAAA
GAAGCAGGGAAATTGGTCTATTTTTATGCTTAGGTCTGACGAAGACCAGAGAGTTATGGG
GAAGTGTGATTGGACAATGGGAATATGATCTAATGGTAATAAATTGGGGAAAACCTTAGCA
ACGCCTGTTTGTTCACATTTCTTC

Sequence 4486

CAGGTACCACATTTGTGAATTTATGCCACAGACTNATTTACGNANTGCACTAAAATTATN
AATAGAGATAATGATTGCNGCATGGTTTAGAGTACTAAAGGACTGGANACAATCTCCATG

Table 1

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GCACT

Sequence 4487

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTNA
TATTTNGAANAGATGAGTTCTCACTATGTTGCCTAGGCTGGCCTCAAACCTCCTGACCTCA
AGTGATCCTCCTGCCTCAGCCTCCCAAACACTGGGACAAGGTCACAATATTTATCTTCT
CAAGTAAGGGGTCTGCTCTTTTTGTCTTCTTCTTCTTGACCTTGACAGCAGCATCTGAAAT
GGTTTTCCCTCCTTCTTCTGAAAACTTTCTNTNTGGAANATTCCAGGATGGCAGAC
TCCCCTGACTTAC

Sequence 4488

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTAATTCATTTTTTT
TCCCTTGGTATAACTTGGAACAAATTTTTTTTCCCTTGGTATAACTTGGAACAAATTTTA
TTTTTAAAAAGAAAAAAAGGAAATAATGGTCCACAGCTCCTACCCTCACCCCATGAG
CCCATCCCCACCACAAGGACAAGCTTACAGTTCCCTGAAGGNGAGGCCAACAGCTGCTGAG
GAGCAAGGACTCGTTCCAGCTGCTTCTAAACAAGGGGGCCAGGCCTNTGCCANAGCCTTC
TCCTTCCTGCCCTGNGTCAAGCTATCCAAGCTTCCTCCTNAACCTTTACCCTGCCCTATG
C

Sequence 4489

ATACACTTACTATAGGGCCGAATTGGANNTCCCCCGCGGTGGCGGCCGAGGTACATTCTT
TCTATGAAGATTTTTCCCGTGGGATTTCCNCCCATTACCCAATAATTCATTCATAATAA
ACAGTTGTTGAACCTAGATAAAATACACCTCTGTCTCTTCCCATTTGCCTATAAGTTTCT
TGCCACATGTGATACAGCAGCTCAAAGAATGCTTGCCAAGTCACTAATAGTCTTTGCTC
TCTCTAGTTTCACTGACTTTCCGATACTGTGTAAACATTCAGGGCACTATGTGAACCTGTAA
GTGTGACCATACTGCATGTTTATGGTGACCTGGTCCAGTACCACATCACAAAGAACTC
AGGAGTGACAGCAGCAGGAGGCTCCATTTGAGGGATCTCAGTGACATCCTACTCGGAAGG
GACAGTCCAGAGAGCCCGAGGCCATCCACAGC

Sequence 4490

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCTTGGGTCTGAAG
GGGTCACTCAAGCGCTCTGCTATCTCTGCAGCTAAAACGGGTGTCAGGTTTTTCAGCTGCT
ACTAAAGATAATGAGCATAAGCGTTCACTGACCAAGACTCCAGCCAGAAAGTCTGCACAT
GTGACCGTGTCTGGGGGCACCCCAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAAG
ACCATCACGGGGAATTCTGCTGCTGTTATTACCCCATTCAGTTGACAACTGAGGCAACG
CAGACTCCAGTCTCCAATAAGAAACCAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCC
CTCAACTATGAACCACACAAAGGAAAGCTAAAACCATGGGGGCAATCTAAAGAAAATAAT
TATCTAAATCAACAT

Sequence 4491

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATGCAACATGTTGGG
TAGCCAATCTGCAGACAGACACTGGCAACATTGCGGACACCCTGGGGGAGGGAAGATTTC
ATTTTACGTGAGATTCCTTACAGGAAAGGAAGTCCAAGTAAGGGTGAATAAAGAGAACCC
TTAGCAGACAATAATTGCCAGGTTGGCAGCTCAGTCTCAAGAGAGGCCATTTTCATCTCAT
ACCAAATGCTCCTGGCAGAGCAATTCAGCCCCATCAAATAAATTTTGCCCTTATTCCAAA
TCCAGGTCTTCTGTATCCATTGTTGATGGCATTACTTCCAAAGCCCCTACCACAACAGT
GAAAAGCATAAACGACTAACGTAGCCATTGAGTTCCATGAACGAAAAATGTTCAACGATT
TCCAGATGTGAACCTTCATTCATT

Sequence 4492

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACATGTATGGGC
AAGTGGGAGTTAATTTATAACCAAGGATCAGGGTGGGGTTGGTGGGTGGAAAAATCACAA
AGAGAAAACATCAAGGGTAAGGGGGATTCTGGCTAAACCAACCAACAGGATTCTTGCTG
AAGACAGGCTGGGTGATCAGACATCACCTGTGGCACGGTGGAGGCTGAGGAACCCGATCA
GATATCCAGAGTGATCAGATACCCGAGGGTGGGAGGTTCTGGCTAAACTGACTGATCAAG
GNTTTTTTGTCTAAACTGGATTTTACAAGGAAATGCACAAGA

Sequence 4493

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTTTTTCTGACATCTNTAGNGGAAAGCGTAAGAAGCATAANATTAGCATAGGCC
AGCAGTAAGTCTGTNTTGGTTGCTTGCCAGTCACTTTTATCAGACTCCAAACACTGTAAA
GACTCCAGATNT

Sequence 4494

GGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCTGAACTGTATGCAGCTGTGGCCG

Table 1

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GCATCAGAGTGGAGAGCCTCTTCTACAACCTATAGCATGCTTTGAAGAGTCTCGGGCAAGA
AACATTCATGCATGAGTATATGTTCTTGGAATCAATTCCTCTAAGAACAGAGAATGGTCT
TTCCCAGGGACACAAAGGGAGAAANGGGACATGGATTCTTGATCTTCCTTTACACATTTC
TCGGGAAATCTGAAATGATGCTGGATGGGACTCTACACATCCTGAGCTAAGACATACTGT
CAGTCTCACTTCTGCTGTCCCAGTCCTANAAATCCTGGGTAGAAAGTGGNTGGACCTGTG
CAAAGGAGGTTTTTAATAACTCTGCAGTNTTTTGTGTTGG

Sequence 4495

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTCTTTCT
TTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
TTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
GCAGTGGCACGACCTCAGCTCACTGCAGCCTCTGCCTCCCANGNTTCAGGNTGATTCTCC
TGACCTTTAGGGTGATCCCCCTCCTAGGTCTCTCAAAGGGCCTGGGAANTACCNGGGGG
GGAAGCCCNCTGGCNNCCCCGGGCCCTTAAANNANGCNNTNNTTTTNAATGGGAAAGG
GTNAAAAGTTNGNATAAATTTCCAAGTGGNNCTNAACCNAACCTNNAANGGGGGNATTTA
AAAAAGGGGGANGGGGGGTTTTATNATTGAANAACNATTTTTGGCNNTTTNTAANAAAA
AANCTTGATTCTTAAAANGCTTNCAAATNGGGGGAAAAAAACCANNANTTTGGAAAA
ATGGGG

Sequence 4496

ACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGTTTACATTGACCTTTACATTTAAAG
CTGTTTCATCCATGGTGCCTCCCCAAATCATAAGACCAAAGACCACCAAACGCAGGGTGGA
CTCTGCTCATTATTCTTTGACCCAAAAAGACTGGAGAAGGTATGTGCTTTAAGTGCTGCT
CTACCTGAAAAGAAATCCTTTAAATTACCTATGGAAGTGATGTCCTCAGATAATCTTAAT
GACTATTTTGGCATTATATAAATAGAAATGATTATGGACTTTGATCTGCCATACGGAGGTT
CGGAACCTGGANAACGGCTGTGATAAGTAGGTTTTGATTGAGTGAAAGCATGAGCTTGTT
CAGAGTGAGGGGCATAGTGAAAAAGGAACAGCCATGCCTCAAATCAAATCATTTGCATT
CCCACAGCATCCTGAAT

Sequence 4497

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAAATTTACTAC
AAAATTAATAATAGTAAATGTAAATATGTATTTATACAGCCTTTTGCAGACTTATGAAC
TATCTCAAATTCACGAATCCTATTTTTTTAAATACAGTTTTTAAGTTTCAACCACTTGTATC
ACCAGAATTTTGAGACTTAACTCCCATGGTTAAGAGATTTCCAAGCTGTGTTACACCTG
TAGTCCCAGCTACACTGAAAGCTAAGGCGGGAGGACCACATGAGCCCAGGAGTTCCAGAC
TAGCCTTGCTCTATTTAAAGAGCAAGACTCCACTGCCAAAAAAAAGAAAAACAAAGAAG
AGAATTCCATAAATTACTTGGCTTCTTATATTCATCTCTTCAGTGAAACAGTACCTGCC
CGGGCGGCCCGCTCTAGAACTAGTGGA

Sequence 4498

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTNCCTCTTTTAAACAGGCTGATATGGTTTGGTTCTGTGTCCCCACCCAAATCTCAT
CTCTAATTGTAATCCCCACGTGTCAAGGAAGGGACCTTGTGGGAGGTGACTGGATCATGG
GGACAGTTTCTTCCATGCTATTCTTGTGACAGTAAGTGAGTTATCACAAGATCTGATGGT
TTANAAGTATGGCACATCCCCCCTCACTCTCTTTCTCTNTCCTGCCACCATATAANATG
NGTCTTGCTCCCCCTTGCCTTCCACCTTGATTATAAGTTTCTGAGGCCTCCCTAGCCA
TGTANAACCGGGAGTCAATTAAACCTCTTTT

Sequence 4499

CTCNCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGCTTTTCTTTCTGTTCTCTGAC
TTGTTTTCTATAGTCATCCCCAATTTTAATAGCCTGCTTTTTTAAAGGTAATGCCTGCGA
AATGGTTNTGTCACATTTTCTATGTTCTGTTCCTTTCCATTGCTCATTTTGCAAGTGTAT
CCTACTTGGA

Sequence 4500

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCTGAGAAAGATCG
TGTCTCTGTCTTGTTGGGGGTGAAGTAAAAGAAGGTTGCTTGGATCTCCTGAACCGACT
TATTGTAAGTGCATTCTTGCTTAAATAGTATTAACCATAAAGGAGGTCAGGTTTATAGGGT
TTGGTTTACCTATTAAACCATCATTGACTATGGAAATACCTACTAAGCAATATAGAGACA
GACAATATTATCTTTCCCCTTATATCTTTTAAGACAGCCACTCAAGTTTATAGAAGAGTAT
GATACAACATTAGAGAAAGAAAGATACAAAGGCTTTATTTCATGTGTGATAGTAAAAATCA
GGATGAGTCTTAGATATACAAAAGATAAATGGGATATTTAAATAGTTATATATGCTTTT
TTAGCAAAAATATTCA

Table 1

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Sequence 4501

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
CTTTTTTTTTTTTTTTGAATTGACTTTTTTTTTTAACTGTTGAGGGTCTTTTAAATAT
TCTAGATACAATCAGTTGCCAGATATGTGATTTGCAAATGTTCTTCCAGTTTGTAGCTTG
TCTTTGCATCCTCTTAACAGTCTTTAATCAGGTAAAAATTCTTAATTTNCATGATGTCCA
GTTTACTAATATTTCTTTTATGGCTCATGCTTTTGGCATCAAAGTTGAAAAAAACTTG
G

Sequence 4502

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTCTTTTTTTTTTGANATAAGGACTTGCTCTGTCGCCAAGGCTAGAATGCAGTGCT
GTAATCACAGCTAACTGCAGCCTCAACCTCCCAGGCTCAAGCGACCCTCCCACCTCAGTC
TCCCACGTAGCTGAGACCACAGGCATATAACCATATAACCAGGCTACTTTTAAATTTTCTA
TAGAGATGTGGTCTCACTATACTGCTCAGGATGGTCTTGAACCTCCTGGCCTCAGGCAAGC
CTCTCATCTTGACTTTACAAAGNGCTGGAATTACAGACTTCAGCCACTATGCCCAGGCTT
GGCTAATTTTTTAATGTATGAAATTAGCNCTTTCAGCNCTATTTGTATCTCCCTAATTTC
TTTGCTGGAAAAGGGCAGGGAAAGGGAAG

Sequence 4503

AAGGTTTCATCAAANAATTTTCATCAAAGTTCANGGGATGACCTCTTTTTTAAATTTTCTTA
NTATTCTATGTAACCTATCACCGATCTTTTCCCCACACACTCCAAGAGCTTTTAAATATAA
TTTTCTACATAGCCATCATCACAGATAACCAATCCTTTTTTTTCCCCACTAGANATGTG
CCTTCCGTAACCTCTGNCCTCTTCCTTTAACCTGGAATATTGCTCTTCANGCCTGTTGNG
CAAGNTAAAANCTTNATTCCTCATNATCCTGGGGTT

Sequence 4504

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTGGCAANAAGCTTGGAAGATTAAATTGATCTTCTTAATGTTACATAATGC
TGCTTGCAACAAGTAGTATATTTATTCTTCAAAGAATGTTAGAAATCTTTGCTAACTAA
CTAGCAAATCACGAGCGAAACCAGCAAGGTGTAAAGAAGGTCGCAAAAAGAAATGCAAAT
GGTTATAACAGTATCAATCTAAAA

Sequence 4505

CGAGGTACCTCTGGAAGTGTGGGTGAAGAAGGCAGCTAAAATAAGGAAAGCTAGTTAAAC
CTATTTAAAAGCCAGTCAGATATAATAGGTAAAATTGTATAA

Sequence 4506

CCGGGCAGGTACCACCTNTTGCTGAAAGCACTGGTTCCCCTGTTGAAGCTTGCTAGGGA
TTACAGTGGGTTTGACTCAATTCAAGTAAGTAAGCAAACATTTAAATATTTTTCAGGNNA
ATAAAATGTNTANCGNTTCTTATNCCTGTAAATTATTGCCCANAGTTAAAAANTACNAT
TTNTAATAATAACCTTNACCTTGGTCCTTTTGATCTTACAAAATTGTCAATTGACTAATA
CCAACGGTTGAGANTANATGNGATGGTTTACAATNAACCCTTTTTANAGGNAATGTAAGN
AATTCNTTTAATTATGCTTCCAAATGGGAAACCAAGGTCTAANNTAATAAANATTANTGT
GTAATANGTCNNCGATAAGCNANATTTGNAAAGATTTTAAAGNGGAAATTGGNANAAANN
TTTTCCAAAAAATTTGGTGNNGTATGTTAAACAATGTANACANTTTGNNAAGCNAAGC
NCCNCNANGNTAATTATCCCTTTNCNCNAANGANTAATGCTTATAAAAATTTTTTTCNA
TTTTAAAACCAAATNGGGGGGNNTTAAACCNTTNTAATTTAAAA

Sequence 4507

ACGCGGTGGCGGCCGCCCGGGCAGGTACTNGTCATGGAGCTGGCACTGCGGCGCTCTCCC
GTCCCGCGGTGGNTGCTGCTGCTGCCGCTGCTGCTNGGGCTCTGNAACAGCAAGGNAGCC
TGTCATTTGACATGGCNCCCACAANAANGNAAGGNGCAAATGGGANANNNTAATTGGGNG
AATNTAATTGCTGNAACGGGTTACCAGCAAAGGGTATTGCCCTCACCANTGATNTCCTN
GGGNGGGCCNTACTTATTTTAATNGNCTCANCNCANAAACNTTNTCNTGGGCNAANGNA
AAACCTTNTCATTCAAG

Sequence 4508

AAGGAAAAAAAAGTCCCGNCCGGGGTCACCTTAANANAAGTCNNGGCCCGTAAGNTNTC
CTTTGGGGTTTGGGAACCTTTTGGGGNCNAANCCCCCAACCCCGGTGGGCCCCAAGGNC
NTTTGAAATTGGGGGGTTAACCCCCCAAAGNCCNGGCCCCCAAGGGCCGNAACCTTTG
GGGGAANNGAANTTGGTTTTCTTTTGGGNGAAAAAAA

Sequence 4509

ACGCGGTGGCGGCCGCCCGGGCAGGTACTAAAATACAAAAAATTGGCCAGGCATGGTGG
CACATGCCTGTAATCTCAGCTACTCAGGTAGGCTTGAGGCAAGGAGTAATCGCTTTGAAC

Table 1

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CCCATNGTAAGCTGGGANGGTTGGGACATTTGANGTCCCGAANNAATTCNGCTNCNCATT
TTGCACCTNTCAAGAACTTGGNGNCCAAACAAAGTANNTTGTAANANCNTCNCNANTGN
TAATAGATAAANNGAANNCCCATATAANANATCCAAACAATTAGANATAATTNGNTNGTT
AATTCGTTNTAATNATAAACCAAGGTTTTGGAANNTTNNCCCTTTNTCTTGGTTCGAAAGG
GAACCCNAAAAACNAATTTTCCAANNGTGGTTATTNTGGTCCTTNCGACAATATTAATTT
N

Sequence 4510

CCGGGCAGGTACTGGGATTATAGGCGTGAGCCACCGCGTCTGGCCTCTAACGAGATATTT
CTAAAGGTTAGGCCCTCAGTCAAGAATTTTAAAGCTGGATCTTAGAGGTTATTNTAAAC
TAACCTCTCCATTTTCANTAAGAATAAANNGAANAGGTGTAGTCCCCANNAAAAAGACA
CTTGNTTNTTTGNGAACCACAGNTTTTNAANAAAAAGGC

Sequence 4511

ACGCGGTTGGCNGGCCGCCCCGGGCAGGTACAATTTTAAATCTCTGATTTAGAGATGAAGA
AACTGAGGGGTAGAGAGGTTAANTAACATGCCCAAAGTTACACAGCTGATAATTGGTTAG
GCTCAGGATTTTGAAACCAN

Sequence 4512

GGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTCTTTTTTTTTTTTTTTTTTTT
GAGACAGAGTCTCAGTCTCCAGCCTGGGCGACAGTGAGACTTTGTCTCAAAAATATCTAA
ATCAGATATGGGTGAGACCCAAGGTTTAGCTTATCCTGAGGCAAATTTCCCTCCAGCTG
TGAACCTATGAAACCAGACAAGTTATGTGCTTCCAAAATACAGTGATGGGATAGGCAGGA
TTAGGTATTCCAATTCCAAAAGTGAGAAANTGGAAGGAAGAAAGGGATGATGAGGCTGGG
TGTGATGGCTCATGCCTTTAATCCTAGCACTTTGGGAGGCTGAGGTGGGAGGATTGCTTG
AGTCCAGGAAGTTNGNGACCAGCCTGGGCAACATAGGGGAG

Sequence 4513

NCGCGGTGGCGGCCGAGGTACAAGTAATTGCTGGAACCTGGGAGGCGGAGGTTGCAGTGA
ACCAAGATTGCACCACTGCACTCCAGCCGGGGTGACAGAGTGAGACTCCGACTGAAAATA
AATAAATAAATTCNATTAAATTAAATTTAAAATAATTTATAGGGAATGGGTTGAAAGGGG
AAATGGGTNATAATGTATATTTGNGAAGCAGTATTTATTANTTTAACNTTGNAACCANC
CATGTTATGNTNCCNCCAGGTCCTATNTNCTACNTGTGAAAAGATGNGTTGTGGTNAATT
TTTTCGCAAGACTNGTGTAANTGNTTTGTCCNCNAAAANTGTCNAANATNTTGNAANAAA
TTGGCCCNCACTTNAAAATTTTAAAGNGTNTTTNTCCTTCNAANTNNTTTTTTGTCAA
ACTNATCCCAGCTTTNAATGAAAAAANCTTTNNAAGTTTNGTGGNCNCATAGCAATAAGN
GGTAAGNGGAANAAAAATTTTTNTTAAAGNTAAATNGNGGGAAAAAGACNTTTAACCT
TTANAAAAAANGNNAATTCCTTT

Sequence 4514

NCGCCCGGGCAGGACGCGGGGGAGTTTCACGCGCGCATGCTTTGCCCGCCATGGCCGCAN
TCAAGGAGCCTTTGGAGTTCCATGCCAAGCGNCTTGGCTGCCCCGAGGAGGCANTATNA
AAGATCCGGGACGAGGGAGGGATTGAAGGGATAATTACCTANTTGAAAGNCCCGANTAA
NTGGNGTTTCTCCCTTGG

Sequence 4515

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTTTTTTTTTTTTTTTTTTTTTTGTTCAATTA
AATGTTTCAGAGATGTTAATATCCAATCAGCTTTTGTTCTGGTNCCCAACCCTTTGGTTT
TTTTTTTTTTGAAACTAACANCTAAATATTAAT

Sequence 4516

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTTATTGGTCATTTGCCTAGAGTCAATTTCTT
TTTTTTTTTGAGACTAAGTCTTGCTCTGTTGCCCTAGGCTGGAGTGCAGTGGTGCCTCTCG
GCTCACTGCAACCTCTGCCTCCCAGATTCAAGCGATTCTCCTGTCTCAGCTTCCCAGGTA
GCTGGGACTACAGGCGCACACCACCGCCAGCTAATTTTTGTTTTTTGTTTTTTTAAG
TAGAGATGTGGTTTTTGGCATGTTGGCAGGGCTGGCCTTGAATTNCTGGCCTCGAGCCAT
CCTCTCACCTTGGCCTCCCGAAGTGCTGGGATTACAGATGTGAGCCACCGCACCTGGCCT
TTCTTAAACNCTTTATCCTTTTTTTATTCTCTTNTTTTCATTTTTTGAAATTCTTTCAGGAN
TGATGCACAGAAAAATGCTNATGTTNTAAAGTCTGATCTT

Sequence 4517

AGGTACACAGGCCGGGCACAGTGGTTTACACCTGTAATCCCAACACTTTGGGAGGCTGAG
GCGGGTGGATCGCAAGGTCAGGAGATCGAGACCATCCTGGCCAACATGGTGAAACTCTGT
CTCTACTAAAAAATACAGAAAAATTAGCCAGTCATGGTGGCACGTTCCCTCTAGTCCCAGCT
ACTCGGGAGGCTGAGGCAGAAGAATTACTTCAACATGGGATGTGGAGGTTGCAGTGAGCC

Table 1

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GAGATCGCGCCACTGCACTCCAGCCTGGTGACAGAGCGAGACCCCATCTCAAAAAAAAAA
AAGTTGTATGTGACAGCTAACCATAATAAAAAAAAAAAGAAAGAAAAAGAGAGAAAGTTG
GGACAACACTAAATCATTAGTNATTTTGGAGCCCNATTTNCTTCAAAGGCATATTGCTATT
TTTTCAACTTNGGGTTTAAATCATGNATCTTTATTGGTTT

Sequence 4518

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTTATGGAGTATGTTT
TTGAGTTCTGCAAAGATTAGCATCAAACCTCTCTCACAGCTGCCCTGTCTGTATTACTGAT
CAATACTCAGTTCGTTTCACATGACTAACAATTTAAAAAACACCTTCATCTGCTGGGCC
ATTCTTTNAAAANTCAGGATTCCAAATANTCTAGAGGTCTGCTGCGAGCTCTAGACTAAA
GGCTCTTGTCAATCCTGGCTGCACATCAAGAACACTCCTGAGGTTCCAAACAAAGCATGG
ATTCCAGGTCCCACCTNGAAGCTACTGAATCCGAATCTCTGAGGGGAGGGCCCTTGCACT
GATTTAAAAACAAAACTGGCCAGATGATCCTAATTTACAGCCAGGGGTTGAGAACCTC
TGCTTCTAGAACATCGGGAC

Sequence 4519

GGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAGAACTGCATGATCAGCTGTATGGTAGC
CTTGAAAACCAACAGGCCACAATCACAGTGAAAACCTCAGGTTGGCAGCCACTGGAGGAT
ATAAAATGAGTTTGGATCTCCTTCAATGCCCCATTCCCAGAGAACTGTCATTANTTGACC
TGCTGGTAGTTCCCTAAAGGACGTGCAAGGATGTTTATATTTGACTGGACACTTGAAGCT
TGCCCTGTATGAACAGCCCCCATCTTCCCATGCTTGTCAAAAATCAGAGGCAGCTAACAC
TGCGGCTTCCTGAGAGTCTCACTCTGTCAACCAGGCTGGAGAGCAATTGCACAAACACTT
GGCTCACTGCAGCCTCAACTTCTTGTCTTCAAGTGATCCTCCACCTTAGCCTCCTAAG

Sequence 4520

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCAGTTCAAGGATTTCTGTT
GCATATTATAATTATTGTCAAGTTTCTTAAACGATTATTTTGAATTATTTTTCAGAGA
GTAAATATATCTCTATTTCTTTAGGGTCAATCGCTGGAAATTTTTTTGTCTTTTGGTGA
TGTCACCGNTTNTTNGTAAATTGTTCTTGATCCTTGAGCTGTGTATTGATATCTGTGCA
TTTGAAAAAGTAGCTATTTATTCAAATCTTTACAGTTTGGCTTTGCATTGGAAAGTCATG
TGGCAGGAGCAATGATGGGGTGTGCCAGAAGCCACGGTACCTGCCCGGGCGGCCGCTCT
AGAACTAGC

Sequence 4521

CCGGGCAGGTACCTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTCCGTCTCCCCAA
AGCTTTATCTGTCTTGACTTTTAAAAAAGTTTGGGGGCAGATTCTGAATTGGCTAAAAG
ACATGCATTTTAAAACTAGCAACTCTTATTTCTTTCTTTTAAAAATNCATNGCATTTAA
ANCCCAAATCCTATTTAAAGACCTGACAGCTTGAGAAGGTCACACTGCATTTATAG

Sequence 4522

CCAAAGCCACATGGCTCAACCTAGCCTCAAACCTTTTAAATTTGCCGCTTTCTTCTTCAA
TAGTGAGAAATCTTGCTCCTATTGTCTTTAATATATGNATATATNTCTTATTCTACTTT
ATAAAAACCNAGNGGGTTTTGTTCNCACCGGCATAACCCTTNCCAGCTTTAACATTGC
TAGTCATCTGTAACCATAACCTNAGATTNGACTCTGAATGGCCCTTGTTGTATCCTCANC
CCCAGTNTGTGTTCTTTGGCCCCGTGCCNCCCTCCTGACCTTNNACTGTCTNCCTTGGCGC
CTGCACCCTTGAAAAGGTCCCNTGGCAAGACNTCACTTGGGGNTNT

Sequence 4523

CCGGGCAGGTACCTGAACAAATCCCATCAAGGACAGATTCTCAGTCTTGAAGAGGCAGCA
CGGTAAAGGGGAAAGATCATGAGTTTTTGGGGCCAGGTTNCNTTGGATTATTGGTGGGGT
CCCCACACTTNTGGATGATGTTGGAATAACTCTTTTGANAACCTTAANGCCTTTCNCATCT
TGTNAAAAATGGGAAAAATNCCTTTATTTTTTTTCAAGCAGATTGTTCCATTAATAACC
ACCTTANAACTGGAATTTNTNGGACCTTTAATTANTCANAAACCNCTTANAATTTTNCCTC
GTNACNCTGGGGNCATTCATTTTGGAAACNTTCCAAGACTTTCAANTCNTTGGTCCC
CNCCCTCCTTGNTTTACNGGGGAAT

Sequence 4524

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTCCCGGTCAGCCTTGCGGTAAGCTTG
TGTGCTTAGAGGAACCCAGGGTAACGATGGGGCAAACCTGAAAGTAAATATGCCTCTTATC
TCAGCTTTATTAATAATCTTTTAAAGAAGAGGGGGAGTTAGAGCTTCTACAGAAAATCTAA
TTACGCTATTTCAAACAATAGAACAATTCTGCCCATGGTTTCCAGAACAGGGAACCTTAG
ATCTAAAAGATTGGGAAAAAATTGGCAAAGAATTAACAAGCAAATAGGGAAGGTAAAA
TCATCCCACCTACAGTNTGAAATGATTGGGCCATTATTAAAGCAACTTTAGAACCATTTC
AAACAGGAGAAGATATTGTTTTCAGTTTCTGATCCCTAAAAGCTGTGTAACAGATTGTGA

Table 1

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AGAAGAGGCAGGGGACAGAATCCCAGCAAGGAAC

Sequence 4525

NCGGCGAATTGTTTTCNCCNNGGCCGCGGCCGCCCGGGCAGGTACTTAAATTATGCTGG
GCNTAGTGGCACATGCTTGTAGTCCCAGCTACTCGGGAGGCTGATGAACAAGAATCACTT
GAACCTGGGAGGAGGAGGTTGCAGTGAGCTGAGATCGTGCCACTGCACTCCAGCCTGAGC
GACAGANCAAGACTGTCTCAAAAAAATAAAAAAGAAAAAATAATAAAAAGGAAAACAAA
GCCTTTAGAAAAACAAAGCCTTTGAAAAAGGATGTAAATTTGAATATATAGATACAATTA
TTTTTAAAAAGTTTTATAGAAAAATATCCTGGATTGTTGATGTTGTTTAAATATATTTTA
ATCATTTTTGTATAATGTCATGTATAATATGTTATAATGAAAGTAAAAAAGGTCT
TAGCAGAGCAGGCAGAAAAATGCCAACTCAGTGCCTTTTA

Sequence 4526

CCGGGCAGGTACTCTTAAGGCCTGACCTCTGAAGTAATCCCAGATATCATTTTTCCCCATA
TGGTATTGGGTCAAAGCACTCCCAGGGCCATCCCAGGTGAGGGGAGGGCAAAAAGACT
CAGAAATGGTTGGTGTTCATCTTTGGAGACTATTTACACAGTGATTGTATATTAAAAAA
ACAGCAATTATATCTTTGAATTTGAGTAAAGTTAAAGAAATGGTATCTGTGAACTTCGA
ATAACAAGTGGAGCTTAAATATTTGATTCTTGCATATTAGGTTAATGTGCTCTACGCT
AATCAGGTTGGAGAAATATTAAGCTCTGCTAGGAATTCTATTGGACTGAAGGTAAGTCAT
CCTGCCAGTAACCTAAGTCAAGGTGTGAACAAGCTGGAATTTCTTCCCATTCTAATT

Sequence 4527

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATNCCTTTGANCTCTTTGNCTCA
TACTTCATTCANAATGATTTACAGAGAAAATAGAGGATATCAGATGGAACCTTTACTCAA
CTCCTCCTGCCACATTTGCACACCTTCCCTTCTCTCANTTCCCTCCCTCCTGCAAGATGT
CTNACCTTTGCCCAAGGCTNNTCCCTTCCCTATGTCTGGATCCCACCTGCTTCCAGTTC
CTCTTTAACTTTCTACTATATCCTNTNTTCTTCTCCAACACTACCACCTNCTTGCCAC
AAGGTTTCTTCCCACCAGCATTATAATACATGCTCATTCTCTACTGGNTTTATTAACAA
CCAG

Sequence 4528

AGGCCGCCCCGGGCAGGTACACTTGAGGAAGCTTGGGCTCANAGGCTTTATGTTAATTCCA
ACAGTTTTTGCAACAGGAGGAGGAGAATATCTGATCCAGGAGCCCTAATCAAGACTCAGC
AGGAAGCTGGTGGCTTNTT

Sequence 4529

CTCAGTGATCAGAAATGATTTTCTCGGATATGAACACCGTTTCTGGCTCCCCTAAAGNGC
ATCCTCCTAATGGGACCCGGTTTTACACTTTTCAAGAATTTGCTTGCACTGACAAAAGAA
TTAAATGCCTGCAGGGAACAACCTTCTAGAAAAGGAAGAAGAAATCTCTGAACTTAAAGCT
GAAAGAAACAACACAAGACTATTACTGGAGCATTGAGGTGCCTTGTGTACGACATGAA
CGATCACTAAGAATGACGGTGGTAAAACGGCAAGCCAGTCTCCCTCAGGAGTATNCAGT
GAAGTTGAAGTTCTCAAGGCANTGAAATCTTTTGTTTGAGCACCACAAGGCCTTGGGATG
AAAAGGTAAGGG

Sequence 4530

CCGGGCAGGTACTATAGATTATTTGTCTTGAAGAAGAGCTTTGATATGTCTCAAAATTCTG
ACGTTGGCTTTTGAAGGAACTGTAAATTTTACAGATCTTTGTCCNTCCCCACAAAGAGN
CTTTAATCTNACAGGGTTGGATTNTGGTGGGAACCTCCNCTTGCTTATTTTTTTNAGAT
NNTNCCCTTTTAAACGTGNACTTANACGGGAANCCATTCCCATNGANTACCNTNTNCAN
AAAAAAAAAAAAAAGTTCCTTAAAAGGTNTTTTATTCAACCTTTTTTGGTGCNCAAATT
TNGNCNCCANTTTTNTGAAATATNANTTCTTNTTCTTNGCCAATTAATTCTTTTAAANA
AGNCCAATTTTTTACCTTGGTAGGAACAACCANTTAAATGGNTTATTTTGNCGNCCCCG
NTGCNCANGNAAANAAAATNTTTCGCNGCTNNCANNACCCATTTTGNAATNATNTTAANT
GGNCTTTAAATTTGGNAAANACCCCTTNGNTNNTCTTTTTTCTTCCAAAAGNTCTTCCTT
TTTTAATTTTT

Sequence 4531

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGGA
GATGGAGTTTTGCTCTTGTGCGCCAGGCTGGAGTGCAATGGTGCCATCTTGGCTCACTGA
AACCTCTGCCTCCTGGGTCAAGCGATTCTCTGCCTCAGCCTCCCAAGTAGCTGGGATT
ACAGGCATGCCGCCACCACACCCGGCTAATTTTTGTATTATTAATAGAGACGGGGGTTTC
ATCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGGGTGATCCACCCGNCTCANCCT
CCCAAAGNGCTGGGATTATAGGTGCGAGCGACCACGCTGGCCTACAATGTCATATCATT
CTATTTTTTCAAAGCATTCTCCCCAGAGGTTAAGCAAATGCTTTCTGCAAAAAAGGAA

CGAGGTACTTTTTTTTTTTTTTTTTTTTGTGTGGAAAGGGGTTAACTTCATAGCAGCTTT
TGTTGAGGCTGTTACTGTTTCATGCAACCTTCTGCTGGTCTCTAAAACATCTACGTCATTA
ACCTTTCTCAGAAGATGGTGCCTTGTCCTTAGAATATGCCATTGCAAAAAAGAATATTCA
GTCTCAACTTTTCCCTGTAAAGAATACTCCGCTCATTTAAAGTGCAGCATAAGCCAGAA
GTTAATATTCTTTACTTTGGTTTCTTTACTGTATGGTCATGAAATAAAAAGCTTATTTAA
AAATATAGTAAGAACTTTAAATGTATTTTGGAGAATGTAAAATTAATCTCAGGACAGAAT
TGCATATCCCTTCCTTTAGGAAATAACTTTATGAAAAATACCCCATCCTTTGGGTGCTG
CAATTTTGTGTGGAACTTAAATCCTTTCACACTTGCTTTTACCTATGAACTGGCCACCCA
GAACTTCTGGCAAAATGGATCTATTTAACTTCNTAAGAAAAAAAATTTACTTTCAAAG
CCCTTTTATCATTTTTTGGCTTAACCCTGAAAGCNTTTTTTCANTCTNAACAGNCCNTTGGGA

Table 1

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AAAACTGCCNCCCCCTGAACATNCCCANGGCTGGGAATTTNTATTGGNAAACAAAAAN
AGCTGGGGGAGNCCCCTTATTGGATTCCAAGTNGGCCACCGGACATTCAANGAGTAGNCT
TTCCGCATTTTCATTAAAAAGTGCANCTNAATNAAAGNACCCGGNCCCTTTTTTTTTT

Sequence 4539

GGCGGCGGCCGAGGTACTGTGTTAATCACTTTACATAAATTATCTCATTTACTCCTCANG
ACAACCCAAAGAGGAAGTATAATTTTTGCCTGTTACTGGTGAGGACCTCATGCTCAGAGA
GGTTAGGCAGCGTGTTCGTGATAACACACTTTATGAAGGAAGGGAGGGATGTCANCCCAN
GTGAGCTGCCTGCAGAGCCTATGCTCTGATATTGCTCCAGCTACCACCTTTAACATTTAN
TGTTCTGACTTACTATTATAATGGAAGCCCTACCCTATCTTNTGTGTATNTGAGAGGATT
TGNTTTTTTATTTCATATCTTCGAATGTCTGTGAATGACTCTGACCTCAATCCTGTGTGTG
TCTGGACCTCTACTAGAACGCATNTGGCATATGGGTAAGCTNACCCAACACAAGGATACA
CCACCNGNAGTGGCTGAGGGCTACACGAGCTCTTANCANAANGANAAGTTAGTGCNAAT
TCCTTCTAACCGCCTTCCTTTCACTGGACNTGAATGCCAATNAACCTANTCCTGNTGGTT
ANGACAACACTNAAGAAANGGCCNTCTAGAATAGAATGGTAAGCCACATTGCATTTAANA
CCTCTTTTCCTTAAAGGGANCTTGNCCTGGCGGGCGGTCTTAAACAANNGGATCCCCC
GGCTTCNCCGAAATTTNANTTCCANCTTTTNGAACCCNTNGACCCCCAGGGGGG

Sequence 4540

TCGCCCCGGGCAGGTACANATCTTGGCTCACTGCAACCTCTCCCTCCCGGGTTCAAGTGAT
TCTCGTGCCTNANCTCTTGAGTAGCTGGGATTACAGGCGCGGCCACTTGCGTNCGGCT
AATTTTTAGTNATTTTNTAGTANTAGTATGTGGGTTTNNCANCATGTNTGNGTNACAGNN
CTTGATCTCANAAACNACCTGAACCTNCAANTGNTGAGTATNACTCTCAACACTTTGNGC
CCTTCCCTCAGAAGTTTGNCCTGNNGTGNATTTNTATCTAANNNGCCGATTGNNAGNCNCN
AACTCCGTTTGGCCTTTNNAAGANTCTTTAACNAANAAGNACAAAAANTATTTTATTTTT
NAAAAAANCAATNGGNAACTACCTCTTNTANTTTTAACCTTGAATTNATAAAAA
AATTTTCCATTNCCTNGATTCTNGTNAAAAAAATTTCCCTTCAATTTTNTTAAACCCT
TAANT

Sequence 4541

ATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT
TTTTGGGGGAGAGGNTTGCAAAAGTNTACCAAATTTCAATTAAGCAGGAAAAATAAGGTCA
AAATATATATTATNGAACAAATGGACTACAGCAAACGTATACTTGAAAATTGCAGAGTAG
ATATGTGNGAGTTAATGCTTANGGNTAATTAGCNCACCATNGNTAGTCCATAATGT

Sequence 4542

AGGTACAAAAACAAGCTGTAGCCTGACCACCTTGGGCACATGTCTTCAGGACCACCTGAG
GCAGTGTACACAGTGCATCCTTAACCTTTGGCAAATACTTTCTAAACTGATTGAGACC
TGTCTCAGATATTTTGGGCTAACACAATGAATATGAAAAAATTTTTTGTGGCGGGGGT
GGGAGGTGGGACGGAGTCTCTCTCTGTTGCCCAGGCTGGAGTGCAATGGCGCAATTTGGC
TCACTGCAACCTCCACCTCCTGGATTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGC
TGGGATTACAGGCACACGTCACCATGCCTGGCTAATTTTTGCATTTTGTAGTAGACAGG
GTTTTACCATGTTGGTCA

Sequence 4543

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAAACACTATCCTAA
GCTTAGCCTCTTCAGATATTTGATTTAAAAATCACTGTAAAAAACACCAGTCACAAAAG
CCACATTTTATATGATTCTATTTATATGAAATGTCCAAGATAGGCAAATCTACAGAGATA
AAAATTAGATGAGAGGTTGCCAGGATCAATGGTGGGGGAAACGGGACCATGTTACAGCC
AGCTTCCGCAGGTCAGCATTGAGCTGGCCTGGGAAGCGCAGGCAGGTGGTGACCCCACTC
ATGGTAGCAGACACCAGGTGGTTCAGGTCACCATAGGTGGGCGTGGTCAGCTTTAGGGTT
CTGAAGCAAATGTCCGTAGAGAGCTTCGTTATTAATGCAGTAGGTCTCGTCTGTGT

Sequence 4544

CGACTCCTATAGGGCGANTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGGATTACA
CGGCACATGTCACCGTGCCTAGCTAATTTCTTGTATTTTTTACC

Sequence 4545

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATGTTGACAAAAATGCCAGATC
AAATGGATTNGAGAAATAAGCCCAATTCAAGGCTGGCTCAGCCCTCCACGGGGCCTNCCA
GGGAAAGGAATTCCTTTATGTTCTTGGAAGCCCTTTNCTAGAAAAGCCATTCCATTCATA
CCTTTGTAGAGCAGTGGGCTGGGTGTGGAGGGCAGCGCGGAGGGTATCTGCAANAGCCTG
TNTTTTNCGCCTCCCTTGCCCCCACTCCTTTTATCCTTTTAAAGTCCTATCAAGCCCTG
CCTTCGTCCCTTCCGCCCTAAGCCCTAAGAGTGGGGGAGGTGTAATACGGCCAATGGATC

Table 1

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TTGTATAAAGNCTACGTTAAGTT

Sequence 4546

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGTTGCATGGAAAAG
ACACACTAGCGTAAGACATGGACAGTGGCCCTGAGTGACGTGCAGCCGGTTTAGGCGAAT
TAAGATTTACATACTTGAAAAGGGACAAACAAGTCTGGACGTGGTGACTCATACCTGTAA
TTCCAACACTGTGGGAGGTGGAGGCAGGAGGATCCCTTGAGGCCAGGAGTTTGCAACCAG
CCTGGGCAACATGGGAAAACCCCTGTCTCTACAAAAATTAAAAAAAATTAGCCATGTGT
GGCAGCATGCCCATAGTCCCAGCTACTCACAGGGGCTGAGGTGGGAGAATTGCTTGAGCC
CAGGAGATC

Sequence 4547

AATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAC
AGAAAAGGTGAATCTGTGTTCTGTATATTCTGCCTAAGGCAAAGAAATGTTTAGCTCTCT
TTAAAATAGTTCCATAATTTTTTCTAAAAAGCTTTGCTTGAAAAGTGTAAAGCTTCCCATA
TCTGGAGCATTTCACTTTAAATATTTGGATAAATATGCTATCTTCTTACTTGGACATTTC
ATGTGTTTAGGGATTGTCTTCTAAATTCTTCCTAATTCATATAGCTGCTAACACTTCCCG
CAGAGCTAAACCATTACAGATATGAAATAAAGACCTATTGATTGACTTACTTTTACTTG
TAAAACCTTCTGAGTGTATAACCTCATTTAATCTTTCAGCATTTACAGTTTCAAGAGTT
TGTGTCACAATTAGAAGA

Sequence 4548

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACTGGTAAACTT
CATTTATTTAANATGACTAGTGATGCAGCTAGCAAACCCAANAAGCCAAGTGAATGGAA
ATGCTCAGTGGTGCTCAGCCATTACCCAGGACCAGANATTCCTTTGTTAACAGTTCAATT
TGTTGAGGCACAAGTGAGGATAAATTGGGCCATGACAAAAGTATGAGATTGAATGATAAT
CATAGTAACATCTGACATATATTAAATTTGGNGTTATGCCATTTCTCAGTTCCACCAAAT
GTACCTGCCCCG

Sequence 4549

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCTTCCCTTGGCACCATGTTATACCATC
TGTGCTGGGCTGAATAGTGTCCCCCAAAATTGAATAATGTCCCCCAAAATTCGTGTAT
ACCATGAACATTAGAATGTGATCTTACTNGGTATTACTTGGTATAGGGTGTGTAGAAAT
AATCAAATAAAGATGAGGTCATACTGCATCAGGGTAGACCCTAAATTCAATGACCAGGAT
TTTTATAAGTGAAAGGAGAGGCGGATTTCAGAGAAAAAGACACAGACACACACAGAGAGAA
GACAGCCATGTGAAGACACAAGCATAAATTGAAGTGACACAGCTACAAGCCAAGGAATGC
CAAAAATTG

Sequence 4550

CCGCGGTGGCGGCCGAGGTACCTACATCACGAGTGTTACTTGAATGGAGATGTATAAAGT
GCATTTTAAATTCATTTGTTTCCTTAACATTTTCCCTTCATTTCTTATCTTTTCAGAGTT
TCTTCTTCAAGGTCTCAAGGTCTGAAGCATCCCACAGAATGATCCTACTGAATAACTCCC
ATAAGTTGCTGGCCCTATACAAATCCTTGGCCAGGAGCATCCCTGAGTCCCTGAAGGTCA
GGGAACAGTGGGAGGTCAGGGTATGGGAGGNGGGGGTGTTTGAGGGATGAGAAAATAGCA
GGCTTGTTGATTCTAGTCCTTCTGACTGTTTGCAGAGGGTTGGAGCTGGGAAACAGGATG
GGACTGGGGGCACAGGCTGCATATCAAGAGCTGCTGCTTCTCTTTGGG

Sequence 4551

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTCTGTGAGT
CTGCATGAACATAAATGTTACTGGACTTGGGGTGCCCCCTAATGCAGATACAGTGTGAGT
CACAACACCCAAGCCATTTCAAATACCTGGAAAGCCTTCCCAAGAAGGACAGCTACAAAC
AAGCCCAGACTGCAAAGACTACAATAAGGACCTAATTATTCGGTGCCCAACACCGGTGA
CATCTGCAAGCATCAACATCATCCAGGAAAACAGCCTCACCAAATGAACTAGATAAGGCA
TAAGGTGCCAGGGACTAATTCTGGAGAAACAGAGGTATGTGACAGAGAATTCAAAATGGC
TGTTCTGAGGAACTCAAAGAAATTCAAGGTAACACAGAAAAGGAATTCAGAATTCTATC
AGATA

Sequence 4552

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTGTAAACTGCAGAGAGGAGCACTAG
CAAGAGGCTCTCTGCCCCCTTCCCTGCTTGGTCTCGAAACACTAACAGCCTGGCTCCTACT
CCCTAAATTGGGGGTGGCAGTATACCTCTGGGTAAACTGAGCAGTCGGAAGATGAAGTCA
TGTGGGGGTGATCCTCAAATGAAAAAATTCATTCTTATCTTGCCCCCACTCCTCACCTA
ACTGCCAGTCAACTATTTAATGTGAACAAAAAGCCAGGTATTGGGGGAAAGCCTGTAATA
TAAAAGAGAGCAAACCAAGCAAACAAACAGAAAAAAGGGAAGTCAAGAGGAAGCAGAAACA

Table 1

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GTGCAGGGAAGTGAAGAAAAGTTAAAAAGATCCAGTCCCTGGGAGACATGAGGGAAGGTA
TTTCATCAAAAGATGAGAATAAAGTCCTATAAAATGAAATATTCAAAAGAAAAAATAGCT
TTTGGAAGTTAAAAAACAGGATAGCTGGAAAAAATTTA

Sequence 4553

CCGGGCAGGTACAATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCC
TGCCTCGGCCTCCCGAGTAGCTAGGATTACAGGTGCCCCGCCACCACAACCAGCTAATTTT
TTGTATTTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGTTCTCAAACCTCCTGA
CCTTAGACGATCCACCCACCTCAGCCTCCCAAAGTGCTGGAGTTACAGGAGTGAGCCACC
GTGCCCAGCCCCATATACTTTAAATTATCTTTAGATTACTTATAATATCTAATAACAATGT
AAATGGTATGTTAACAAGNTGTTATACTATATTGNTTAGGGAATCATGACAATAAAAAAG
TCTGTATGTGCTCANGTTCANATGCTTAAAAAATATATATTTTCA

Sequence 4554

ACGACTACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCCGAGGTACTTTTTTTT
TTTTTTTTTTTTTGGTTTGAGACAGTTTCACTTTTGTGCCCAGGCTGGAGTGCAATGGGA
TGATCTCGGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGCGATTCCCCTGCTCAGCCTC
CTGAGTAGCTGGGATTACAGGCAATGCGCCACCATGCCTGGCTAATTTTGTATTTTTAGT
GGAGACAGGGTTTCTCCACGTTGGTCAGGCTGGTCTCGAACTCCCGACTTCAGGTGATCC
GCCACCTCGGCCCCCAGAGTGTTGGGATTACAGGTGTGAGCCACTGCACTCAGCCAATA
TCTATTATTCTTAAAGTCTTTACCAGGTTTAAAGGTCTTGGATTATAATTCTGATGCTAA
TTGCTTGGAAATGTATTGCTATGTATTTATGAATATTCTCTTTATAACTAAAGATGAATG
CCTGGAATTTTTGCAAAATTTTAAATTTGTTTTTCAAAGATAAACTAAGATAAAAATTA
CAAGGTTTCATTTCA

Sequence 4555

CCGCGGTGGCGGCCCCGAGGTACTTTTTTTTTTTTTTTTTTTCTTTTTTGAGATGGAGTCT
CGCTCTGTCTCAGGCTGGAGTGCAAGTGGTGTGATCTCAGCTCACTACAACCTCCACTC
CCTGGGTTCAAGCCTCAAGCCTCCCGAGTAGCTGGGTTTACAGGCATGTGCCACTATGCC
CGGCTAACTTTTGTGTCTTTGGTAGAGACAGGGTTTCTTCATGTTGGCCAGGCTGGTCTC
GAACTCCTGGCCTNAGGTGATCTGCCTGTCTCACCTCCCAAAGTGCTAGGATTATAGGCA
TGAGCAATCACGCCCCGCCTATTGGTTTATTTCATAAGCAGTTATGAGTAAAGAAAGAT
AAAATCTAGCTCTATGCATTATTAAGGTAAAATACATAGCTTCTGACACAGCTACTTTTT
GCTCTCCTGTGAAGCCTTTTAAA

Sequence 4556

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGGCGGCCCCGCGGCGGCGAGGTACAGTTT
ACAAGGTAATACCTCTAAGTGTGCTTTTAGCGTTCAGTGAATTCTTAAACTGCTGCTGG
AGAATTGTCCCAAACATATTTTTTTTAACTTTGTAGGACATTTAGCCCATCAAAACCTGC
AAAATCTTTACATACACAGAAGAACAGACAGTTCTTCAATGAACCAGAAGAAAATTTCTG
GATGGTCATGGTATTTACATACACAGTGTATCTTCTGAAATTGTATGGTGAAGTTATGG
GTGATCTTTACTGTTTCAGAATTTAGGAAAGTTCTCTGGCTGTTGCATCCAAGTAAAATTA
AAATAAAATTTGGTTGCAATTTTAAATCAAGTTCTTCCTATTTGCTTTATTCATTCTTGG
GGCTGTTTTTAAGAAGCTATGTTTCTGATGCTGTAGCATGTTCAAAGTTTTTAAATTAAGG
CAAAATAAACATGGGTCTAATGAATTCATTGTATAATTTCAAGTTA

Sequence 4557

TACGACTCACTATAGGGGCGAATTGGGAGCTCCCCGCGGTGGGCGGCCCCGAGGTACTACTAG
GTTTACCCTCTCATTTCCTTTATCTTCAACTTATTTTCTTTGTGTCATCTGAATCCTCCA
GATATCTAACTTTTCCTTTTATGCCTTTCACATTTCCATTGGAGATCACTTTGTCCCCT
TCCTTAAGGTTCTGTCTGGGAGAGATTTAAGAGTTGGTTCTAGCTAAAAAATATGGCTGTA
GCTCTGAAGATGACATAAAAGTTTTTCCCTATGCCTAAGATTTCAAATATATGTATACAT
TTGAAAGAAAAAACAGGGAGAGCATTATTTTTTTGTCCAGATTATTTTTGCTCATTGTAG
GTAAAAACAATCTGTGTATATATGTAAAAAAAACAAAAACAAAAAACC
TTTCAGTCCCTACATAATACTCANNAATAAAGTTCTTCAGCCAGCTATGGGGATGGGG
GAAACAATTCCCAGGGTACCTGCCCCG

Sequence 4558

CCGCGGTGGCGGCCCCGAGGTNCAAAGAANCCTCANTCCCCACNACACCCTNCCNTGCATG
GTGTCACTGACATCTNTATTGNCTTTTGTACGTNCTGTAAATCACAATGAATGGGGTAT
TCTTCTTCTATTATATATTTGTAAGCTTTANTGGCATCTNTAAAAAAAGTGGTAACTNT
ATCCTATGTAAT

Sequence 4559

Table 1

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AGGTACATCTGCCTATATTCCTTGTGATAGTGCTTTGCTTTTTTCATAGATAAGCTTCCTC
CTTGCCTTTTCGAAGCATCTTTTGGGCAAACCTCTTTCTCAGGCGCTTGATCTTCAGCTCT
GCGAAATTCCTTCGCTTTTCTTAAGGGTTTCTGGCACAGCAGGAACCTCCTTCTTCTTCT
CTTCTACACCCTCCATGGTTCCAGCCGGAAGAGCCCCGCGTACTATGTGGCGTTCTT
CACCTCCCCCTTCGTGGTCTTCTCCTGGAATGTGGTCTTCTACATCGCCTTCCTCCTGCT
GTTTGCCTACGTGCTGCTCATGGATTTCATTTCGGTGCCACACCCCCCGAGCTGGTCCT
GTACGCGGGGTTGCATTTCCAAGCCATTGCTACAAAGAACCTTATTTGTTCAAGTAACCG
GTANAAAAATCCTTCCCGA

Sequence 4560

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTGT
TTTTTTTTTTTTTTTTTTGAGATAGAGTCTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGC
ATGCAATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATTCTCCTGCTANCT
CCCGGGTGGCTGGGACTACAGGCGCACGCCACCACGCCAGCTAATTTCTTCATATTTTT
TTTAGTGGAGACGGGGTTTTACTGTGTTGGCCGGGATGGTCTTGATCTCCTGACCTCCTG
ATCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTGCGGGCGTGAGCCACCGCGCCTGGC
CTGCTTAGAGTTTTTTTATGTAATTATTTTGTGACACAAACATTTAAATACTGTAGCTTA
NAATGAAATTGTCTCAATCCTAGGAGCCAAAAGTTTGATGAATATGAATACTAATATTAA
CCATTTTT

Sequence 4561

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTCTTTTTTGAGATGGAGTCT
CGCTCTGTGCTCAGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTACAACCTCCACTC
CCTGGGTTCAGCCTCAAGCCTCCGAGTAGCTGGGTACAGGCATGTGCCACTATGCCCGG
CTAACTTTTGTGTCTTTGGTAGAGACAGGGTTTCTTCATGTTGGCCAGGCTGGTCTCGAA
CTCCTGGCCTTAGGTGATCTGCCTGTCTCAGCCTCCCAAAGTGCTAGGATTATAGGCATG
AGCAATCACGCCCGGCCTATTGGTTTATTTCAATAAGCAGTTATGAGTAAAGAAAGATAA
AATACTAGCTCTATGCATTATTAAGTAAAATACATAGCTTCTGACACAAGCTACTTTTTG
CTCTCCTGTGAAGCCTTTTAAACTTTCTCTGAATTCCTGATTATGTTCTGAAAGAATAA
GCTGCTAAAACTGGCCTCCAANGATAGTTACTGCAGGAAAAAACTGAAGGCTAAATGAA
AAGTGTTGNGTAAGGNTTATGACCAAAAAAANTTACTCTAAAANTAATTCAGGNCAAGAA
ACCTTTCCCTNTGGTTAATAACCGGTTTAGAATTNTTCCCNTTAAAAGANGGAAGAAAAA
CTAATCCTCCNTACGGTTNTCACAAATCTAANGGACNCNTTTTAAATTTCCCTTTT

Sequence 4562

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTNCTTTCTTTNTTT
TTTTTTNNNGNANAAAACNTTNAANNTTTTTTTTAAANACAAGTNTCCNTNTCCCCGAG
GTTTNTNCNNCTGGNGGAAANGAANAATGTCCCCCNTAAGGAAAAAAAGTNGNANANN
CCNTTTNTTNAANACNNGGNGCCAAACTTTTTTGNAACNCNTTTTTATGAAAAAGGCC
TAGTNTAATTTTGGANGGNNTAAAAACANTTTNTAAGGNTTATTTTNTAGTTAACCCTC
GACTTTAAACNTTCTTAATCCCTCNTTTAANCNGNTTTTTTTTTNTTTAGCCCTTTGCAA
AGGGAAATNTAANAATTGAANTTTNGGGNCCCCCNCAAAATTTTAAATTAAAACCCAG
CTCCCTTTTCTGGGCAAAANAATGCTTACGANNTTGGAGGNTTNCCAAAAAACTTT
GACCGTTNAACCGGGTTAATTTTNTTTAACCANNGGNGGAAAGTTTNTCCNTAA
AAACCCTCNGGNCTAAAAANCAAACCTGGTTTAAAAANTTGGGGGGGGGNACCCTGGA
AAAAANCCACCCTTNGNGAAANCCTTGGCNCCTGGGGGGGGGNCCNTGGNTTTCNACNGG
GGGNAAAAAGGAAACCCCTCCAAAAAAACNNGNGGGGATTTTTTTGNCCCCACGG
GGATTTTTTTNGGGGAAGGGCAANAAAATTTTTTAAAGGGGCNCNCCCCAAAAAAATTT
TTTTTTTTTTTTTTNCCCCC

Sequence 4563

CCGCGGTGGCGGCCGAGGTACTTCGGGAAAACAAGAACTGTGCTTCAATGTCTTTATAAC
CACACTATATGGCTCATTGTAAATGTTCAACAAATGCTTGATGAATGACTCAATGAGCAA
AATTACATGAAACACTTGCTAACCTATCTCTTTTCATCAAGTATGTAGCAAACACATGC
CCACACCTGGCACCAAGAACTATAAGTGCTATCTAAATATCAACATTTTATTTGGCCTGT
GCACTTATCAGCTAGTGGAAAGCATAAATTATCCAATAAACAGACGGGAGGTGTGGAGG
CAAAATATCACACCTAGGTCTTCAAACTAATGACTTTCAAATCAAAAACCTGCATTACCT
GATAAAGACTTAACTTCATGATTATTTCAACAGGGACTAAAAAAATTACAGGAAATCTTG
GAAACCAGCTATCTGGCCCAAAGACACTAATTTTAGAAGATGAAGAACTGGAGGCCAG
AGAAGTAATCAATCAAGGACACCCAGTTAGTGGCAGAAGTTTAAATTAAACCTAAAATCT

Table 1

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TNTGGNCCTACCCTTAGTTTTTGGTCTTTTACCACCTGGTTGCCCTTTGGTTTCTATTAA
AATCAAATCTTTTTTCCNCAACTTAAAAAAAAAAAAAAAAAAAAA

Sequence 4564

CCCGCGGTGGCGGCCGAGGTACAACCTGATCAGCAAAAATATTATGATTAATATGTAACT
GAGGAAGTATATCCTACAATTTAGAAAGATTAATATTTAAAATAGTTAAAATTATTGAAA
GTTTTAACTTGCCCGAAACAGTCCCTAACCATANGGACAATTAATGATGCTATAAAATT
CTATCTAACATTCCCTAGTCTACTTGTGTGTTTTGGAGGGCAGGCTGCCATTCCCTGCCTATT
TTAATCTTTCGAAGGTGGTCTCTGCTCCCATTTAAAGGTATAAGCAATTAAGAGATACAG
AACCCTCAGAACTACCTTCTATAACTTACCTAATTTCTAAGCTTAAAATGTAATCTAGGC
TGGGCATGGTG

Sequence 4565

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTGGCTCATGC
CTATAATCCTAGCACCTTGTGGGGCTGAGGCGGGAGACTTGCTTGAGCTCAGGAGTTAGA
GGCTGTAGTGAGCTACGACTGAGCCACTACACTCCAGTCTAGGCAACAGAGCAAGACCCT
GTCTCAAAAACAAAACAAAACAAAATAACAGAATATTTGTTGCCAGTGATAAAGTTAG
ACCCTAAATAAAAATTAGAACTTTAGAAAGCATGCATTACCAACCATGAACTTTAAAGCA
ACCCAATATTTAAAGACCTTCCTGACGAAATCAGTGGAATTATTAACAAATGTCTTTATT
TAATACTGTATGATAAAATGTGTCAACATTTAGAAAATCTGCGTAACTCAA

Sequence 4566

CCGCGGTGGCGGCCGAGGTACACGTGGTGCGATCTCAGCTCACTGCAAGCTCCGCCTCCT
GGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATCTGCCA
CCACGCCTGGCTAATTTTTTTTGTATTTTGTAGTAGAGACGGGATTTCACTGTATTAGCCA
GGATGGTCTCAATCTCCTGACCTCATGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGA
TTACAGGCATGAGCCACTGCGCCAGCCGAGTCATTTTTTAATACTACTGCATGTGAGTT
AACACAATCATTCCCAAATTGAAGTTTTAGAATGGGCCCTCAAATTTTTAGGATATGGT
TTTTCTCAGGTTTATATTGA

Sequence 4567

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAA
GAGACATGTCATTAAAAACAATTTGGCTACTAAATTTTGTTCAGAAGCTTTACTCACTA
CTGGTTAGGAAAAAGCTTATCATTCACTATCCTACACAAATAAAAACACCAGTTAAAGG
CGAGAGATGGAAGAGAGAGAATAGGTCATTTACTTCAGTAGCTACACCTTCTGTCCCCAA
TCACAGGGACGAAATGACCCGAGGGTGGGTGAAGCTATGCAGTAATACAGCCTTCAAAG
ATAATCACATTTGCATTCTCAATAGCACAGACACAACCATTTAATTTAACTTGACAAATC
ATTTGAATGTATCATAATTAAATAAAT

Sequence 4568

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCAATGGCCCTTCCCTC
CAGAAAAACACACAAACAAAAAATGAGAAGAACTATCAGAATTAACCTCATCTGAACG
CTGGAAATAGTCAAAGGTTTACAGCAACTAAGTAAATAGTGGCTCAAGAAAGAGGAAAC
ATGAATTTTGGTGGCATTTTTTACTTGCCCTTGCCCCAATGCCCTCCCTGATTTAGTGGCA
ATCTTGACAATGGCAGCCACATTTCCAGCGTGGGACTCCAGTTCTACAGAAGGCAGAGC
AGATCTTATTTTCAAAGAACTGTGTTTGTCTGTTTTGACTTATCTGGGGACAACCTTCAG
GCCTGACAAAAGACACTTGCCTTACTTTCACCTAACTCAAGACTTCTCAAGGCAGAAAA
GTGGCTATACAGAGGGCATTCTTTGAAAACATTGAAAGGCAAATGAACAAACCACCGTCA
CCTGAAGCAAAGATTACTGTAAAGGCACACAAAAGATATGCTGCAGCCTGGGAAGAAAG
ATTCTTTGGAAGATTTAGTGCATTGAAAAGCTGCCATGTGTTACTGGGGAATTTAGAAAG
CCATATGCATGCCCCGTGGTAGGGATGCATATTCNGAAAAGACCTGANGAAGACCCAACT
TTCACATCTGCTGATCTTTANGCTCAGTTTCAAGCAGGCTTNTGAGANGACTGTAAATTA
CCTGTCTTAACCTTTTGAAAAAGTGCCCCATGCNAAAGCCCATCAGCAATTTTTTAGAAGAA
TNNATTTGGGGGNTAATTATTTTAT

Sequence 4569

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCTGTCCCAAGAAAAAGAAGAAG
ACTGGAAATGTGTCTCAGAACCGACTAAAACCAGCAAAGGTCCTTTCCAGTCTCAGAAA
AAGAACTTATTCCACAAAATTGTCAGCAAATATAAGCACAAAAGGAGAAGCCCAATGTT
CCGGAAAAAGGAAGTGGGGATAAATGGTCAAACAAGCAACTCTTCTTGGATGCCATTAC
CCTACAGAAGCCATAATTTAGAAAGACAGAAACACCATGGAGCCTGTTTATAAGGTTAAA
AATATCCCATCCATTTTCAACACTCCAGAGCCAACAACAACGCAAGAACCTTTGGTGGGC
AGCCAAAAGAGAAAGGCAAGGAAAACCAAGATTACACACCTTGTCAGGGACAAGCAGATG

Table 1

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GCCGGGTATCACCAGCAGGAGGTACCTGCCCCG

Sequence 4570

CCGCGGTGGCGGCCGAGGTCTGTTTACTAAATTATAGCACTGCAATAAGACATTTACCA
ATATGATATTGAAGCATAACAAGTTATTTTCATAAGGAATGGTAATTATCTAACATTCTAA
GCAAATTTGGCAGTGTGACTTGGTGGGGCGCAGTGCTGCCCTGACACAATGACAGCCTTA
CTCTCTAAATTAGTAACTTCCGTAGGAGACCCCAGAAGCACACCTCCCTCCCAGCAGTGA
AAGCCGAGGATTCCCGTTTTGATTAGCAGGCGCCTTCTGTTCACGATAAAGGGATAAGAA
TCAGGCAGTGATGGCAGCGGAGTTCATGCTTCATTAAGGCAGGCATTGCAAACCTAGTTCA
GAGGAGAGAATCCACGATGACAGCACATTCTGTGCCATGGAGAACATTCTTAAATCAAGC
CTCCAGTGGAGGAAGGACTCAAGAATGAAATAGCACCAGATAACGGGGCATCATTAGACT
TGTAAGCAAAGCTTCCATTTTCTATTTTATATAAACCATTTAATGCCTTTAAACA
ACTGTGATATCTGGACAAATAAAATAAGAAATGACTTCTTAAGATGATTGCAACTTTTAG
TCTTGATTTATAAAAATTATTCTACATAATTTTAAAGTAGGGGTAAGTATAATTTTCT
CACTTTTTTTTTG

Sequence 4571

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGTGTCTCACTCTGTCACCCAG
GTTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCCCTTTCCCAGGTTCAAGCAA
TTCTCATGTCCCCGCCTCCAAGCAGCTGGAACACAGGTGCACGCCACCATGCCTGGCCA
TTTTTTTTTTTAAATATATATATTTTCAGTAGAGACGGGGTTTCACCACGCTGGCCAGGCT
GGTCTCAAACCTCCTGACCTCAGGTGATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATT
ACAGGCGTGAGCCACCGCGCTGGGCCATCTGTAGTCTTCTGCAAAAAAAGGGTCCTCTAA
CATTTTTAGGCTAGTTTTTGCAAAAACTTTTCTGTTTTTTGAATCCTTTAAAAAATTT
GATGTCCATTATTTTAACTGCATCCTTAAATATTTTACATGCCTCTATTTTAAATGACTT
GGGGTATAGTNGCGNGATAAAGATAACCATTAGTTCAAAT

Sequence 4572

CCGCGGTGGCGGCCCGAGGTACGTAAAATGAAATTTAAAACCTCAAATGGCTCACTGCTC
AGAAACCTCACAGATGGATGCTGGGTGGTGAGCAGCAGAAGGGGTGTGGGTGAGTCTAC
ATTGTTGTAGTTGTCTCTCACTACCCATTTGCAAGGAAAGCCTGGCATCAACTGGATAT
AGAACCGGGAGCTCTGATGATGATAACTCATTTCTTAGAGAGTCCTTTTTCTACTTTGCC
TGTTTTGATCTCTGCCTCAGGCATCTGATGGGTCTCTTTGATTCTGATGCCTTGGGTCAA
ATCATACAGCATAATGGAGTCATGGAATTGCAAGTTTATTATGAATGTGATCTGAGCAGA
CGCCTACACATCTACCCAATAGCCTTTAACCTCTAAAGGGCTAGAGTCATTGTTCTTCAA
ACCGTTGCACTGTAACTGGTCAAGTCTGGCAACTTCGAATAGACCTCACCTCCCACGTT
GCTCTCTCCTGGTCAGAGCTGAAGCACATGGAGATAGTTGGGGTTCACAAAGCTCATATT
ATCAACCCTCTTACTTTACTTTTCCTG

Sequence 4573

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATGGCGAAGCTAGAGACTGTAACCTGAAGAT
TGGGACAAATTAAAGAAAAAATGTGATTTAACACAATTACAAAACTGTTACGTTAGGG
TCAAACAAGAACCATTTTATGAAACTGAATTACAACAAATGACATTATATCTAACTCTTC
CGGGTCTCCACAGCACTTATACTTACTTAAGCAGCTTAAACACTTCCGAGTCTCCACAGC
ACTCTGATACTTACTTAAACAGCTCTTTTAACCTGCCCTAGTATTCTTAAGTGCAACATA
TCTAATTTTTTTTTTCTCAGTAGTTTGAACACTTGCTGGCTATTTTTTCTGTCCAAGTT
CTCAAGTAACTTCGGCCTGTGTAGTCAGTGGTTCTACACAGCCGACACTACTTCTTACAT
AACACTTGGTCTCTCTGGCTTCTGGAAAGGGCGAGGGGTACCTTCCGGAGTCCAGTGCT
CTTTCCGGCACTTCTGCAACCAGGCAGTGGTAAAAGGGGGTGCTCTCCAAAACCATCTTCT
AGCAGATCTTTTTTCAGTTAAGATTACTTGTTCTTCCATGTATTCATATTTAGCCAGCTNC
TTGATCAGCCGCAATATGTCACTGCANTCGGCGGCANTGGCTGGGCCGGATCACGAAATT
TAGCCATTTTCGGCTTTTGCTTT

Sequence 4574

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTCCTCCCCACTACCTANCTCTAGCTTCTGTC
CAACCTGGCCTATTTTCCATCCTTCAAAACAAACCCCAATGTGTATGGCTTACTCCAGCT
GCTTCCTTACCTTCAGGTTTGTGGGCTTCATTTAAGCCATGGGAATGCCAGCTTAATTAA
TGCANATTAAGATAAGAACATTAAACCCCAAAAATGATGGGAAATCACTCTGTCTTCAA
ACAATANAAAATAATAAAATCTAGTTATAAAGATTATATAACCATTTGTCAGTAGTAAGAAG
TTGGCACTCTTATTTACAAAACATAAAGAAATTAGGGTTTAGGTCTGGCATGGTTGGTTC
ACACCTATAATCCCCANCCACTTT

Sequence 4575

Table 1

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CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTCTGT
TATCCAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTTGGACTCTGGGGCT
CAAGCTATCCTATCACTTTAGCCTCCTGAATAGCTGGGACTACAGGCGCATGCCACCACA
CCCAGCTAATTTTCGTGCTTTTTGTAGAGACAGGATTTACCATGTTGCCCAGGCTGGTT
AATCTTACTTTCAAATGTTACTGATGANAAAACAGGTTCTGAGAAGCTAAGTAACTAAAT
TTAAGATGAATTAGAACAGCAGATGGGACNAAGTCAAAAANGTTCTGCATCCTACTCCAA
GCTTTTTNTGCAAAAANGCTATTTGTAAANGTNATTTGGGCTTNTTAAA

Sequence 4576

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTGCCACTGTTCTAGG
CACTGGGGGATACAGGAATGAACAAAATCACCCAAATCTCTGCCCTCCCAATTTTCTGGTA
TGGAGAGAAAGTTCTTTTGTAGATAGGGATGAGAATCCCACAGAAACTCAGGAGTGATG
TAACAATGCAAATGCTCACAAAATCTCTTTCCTCATCTTTCATTCCCTATTTGGAAGGAA
AGGTTTCAAAGACATTGATGTTGTATAAATGACCATCTTCTTCATTATTTTATAAACATT
TGTCTGTGCAGAGTAAAAACAACCTGGACTGCATAACAAATTATACCTATTGAGAGTTGG
GTAAAGAGTTACCATTGGATCCAGTCCACCAACCCAAATGTT

Sequence 4577

CCGGGCAGGTACTCATCTGTTTACAAATGGTCTATGGCTGCCTTTGTGCTACAAGGGCAG
AACTAAATAGTTGTGAGATACCAAATGGACTCCAAAACCTAAAATATATATTTGGCTTTT
TACAGAAAAAGCTAGTTGAACTCTGCTGAAAGTTATAAACTGAATTTGCCTCATGGTAAG
TATTATACATAAAGAAATTCCTGCCTGTTTTTTCTTGATGGAAGAAAGAGGCAGGACCCA
GACTAGAAAGTATTGAGAGTCCTAGCTNGGTAACCTGNAGAAACAANTTTCAATTAATGG
AGAAGGAAGTTANAANCCTNNGGCCCCATTCA

Sequence 4578

CCGGGCAGGTACTGAGTTTCAGGAAACAGTGAGATACATTCAGCAAAACAGTGGGCTTCA
TGCTGAAAGAAGTCACTCCAAGTAAACACACATNACACACACACACACACACACACAC
ACACACACATACACACACCCGCAGACACCCTAGTGGCCAATAGGTCCTCTCACCAAAAAC
CTGTGATCAGGAGAGCANAAAGCCTCCAGGGGTCCATCACTGCCCTTTCTGGAGCCCCT
TATCAGATGGCCAGCCCCAGGACAGCACTGTCTTGNTCCTGGTNCAGTCCAA

Sequence 4579

CCGCGGTGGCGGCCGAGGTACTTAAACAACCTTGTCTGTTTTCTTTAAATCTTTTCCCTTA
GGTTAGATAATGCTGCTCATGATTGTGAGAGCACAGAAAGTTCTTTTGTCTTAGAATT
AAGTCTGCTCACCTGGTTTGCATTCTGCATCTGCCTTTCTTTAGTGCAGGGTAAGTGTC
AGTCCCCTGTGGCCCAAAGTTTGCATTCTGCGTTAACCAAGTCACAATTAATGAGGTTT
TACTATAGGCACAAATGCTTAAAAAAGAAAAAACGATTGTTTTGTGTGGTTAAATAA
AACTTGTGGGGATTTTAATGTATTTCTTTGGTGAAAAATACATTAGTTGTTTGGTCTCT
AATTTGGATCACTTTCCCTTCTAGACTCTGAACAGGGAAAGTGCCTCCTGGAA

Sequence 4580

ACTACTATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCTTTCNTTTT
TTTTTTTTTTTTTGATAATNTTTTTTTTTTTTTTTTTTNGCATCAAAAAGCTTTATTTCC
ATTTGGTCCAAGGCTTGTTAGGATAG

Sequence 4581

CCGGGCAGGTACGCGGTCTGCGCTTGTCATCATGGCGACGCGGGGCCATGTGCAGGACC
CTAACGACAGGCGCCTCCGGCCCATTTACGATTATCTTGACAATGGTAATAATAAAATGG
CAATTCAGCAAGCAGATAAACTGTTGAAGAAACATAAGGATCTTCATTGTGCTAAGGTTT
TAAAGGCAATTGGTTTACAGAGAAGTGGAAAGCAAGAGGAAGCCTTTACTCTTGCACAGG
AGGTGGCAGCCCTTGAACCCACAGATGACAACTCACTGCAGGCACTGACTATCCTTTACC
GGGAGATGCACCGACCGGAGTTAGTTACAAAACCTTATGAGGCAAGCTGTGAAGAAAGTT
CCCAATAGTGAGGGAGTAT

Sequence 4582

CCTCCACATGTCTGTCCCGTCTGCTCCNAGACTGCAGAGGACAGTCTTGAGCATCATCTT
ACTCACATTTTACTCAGAAATTTCTTATTGAGTCCTGCTAAATACA

Sequence 4583

AGGTACTTGAAAAGAAAGCATCTGTGGCTGTGCCCAAAAAACCGGAAGCCCCACGTGCAA
AAGTGCCTGAAGCTGCTCAAGAAGTTGTCCAGAAAAGAAAATTCCCAAGGCACCAATCA
AAAAACCANGAAGCCCCCGCAGTTACAGTGCCAGAAGTTCTCAAGAAGCCACAGAAAAA
GAAATTCCCGTGGCTCCACCCAAAAAACCAGAAGCTCCAATTGTCCCAGTGCCTGAAGC
TCAAGAAGTTGTCCAGAAAAGAAAGTTCTTAAGGCTCCTCCACAAAACCAGAAGCCCC

Table 1

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ACCTGCCACAGTGCCTTGAAGTCCCACAAGAAAATTGTGCCAGNAAAAGAAAACACTGGT
GCTTCCTAAAAAGC

Sequence 4584

AATTACGAACCTTCACTTNATTAGGGNGTCCGAAAATTTGGNGNAAGACNTTGCNCAACNC
CGTCCGCGATGGGGNCCGGGTGCGGGCCGCGCGGGGGNCCAGGGGNTNACCCTGTGTNT
NTATNTNTNTATNTGTATGTCTCTNTNTNTCTGGGTGAGGNCCTTCCTTGTGTGGGTT
AAAANANTTTNCTTTTTTTAATTGTNGGNCACAGGNGCAAGTTTNGNAAAAACCCCNCTT
AAAAAAAGTTTGGGGCTTTCCAACNAATACGCANGTTTGGCCCCCTTNATTTTTTCCTT
TTTTCCAATAATTNTAAAANCTTAACCAANAGGGGGNAACCCAAANAANCAACCCAATTNT
TTNAAAAAAGGCTTTGGGGAAGANATTAAAAAGNTNGGANCCCCAANATTTAATTGGGAA
ATTTTTTGGNCCCCCAAAAAAATTNTTCTTNANAAAAAGNNCCGGGCCAACCTTTCCA
ACCCCAATTTGNGAAAAAAATTGGGNGGNAATTNAANAANAGGNGGGTNTTTAACCCNC
CTTTTTCTTGGGGGGGGGGGNAATTTTTNTTNGGCCAACCCNTTGNCCCTAATTNGGAA
AAAATTTATTCCTTTNGGATNGGGAAAAAAAGAAGGGCCCTTTTNGGCTTTTGGGG
GGGNAATTTAATTTTTTTNNGCTTTGGGAATTTAANGGGAAAGNTAAAATTNANGGGAAAG
GGNAAAAANAATTGGGGAAAAAAGGGGTTAATTTAAATTTTAAAATTNNATTTAACAAA
GGGAATTTANCCCCTTTAATTTGGGGAAGGGGGGGTTTCCCCCCTTTNGGCNCCCTT
TTTTTTGGNCCTTTTTCNTAACCCAATTTCTNCCACAAGGNGGGCCTTTTAAANCCAAA
AAAAANCTGGGTTTGCNCCCCCCCCCAATTAAAAAACCCANTTTTTTCCCCNCT

Sequence 4585

AGGTACAAGGATTCCTCTAGGGAGGAAATGGTCTCTATCTGGAGAGAGATCTTCATGAGG
AGATGGAGAGGCGTGGAGGCATGTGATGGTGCTGCAGCCAAGGCCGTGGGGCAAAGGCCA
GCCTCCTCTTCCTATTTTTATTAACCCGGGTCTTCTGCGCCCAAAGACTCAGCCTCATTC
AGGACCATATTATGTTTACTTCTGCTGCTTCCAAGGAGTGTTGATGAAAAAGTGGGGC
CTTGGAGGGGTAGAGGCCAAGGGACAGTTTCCCCTCTGCCCTTTGAAGTTCACGATCTTC
CATGCAACAAAATTGTTTTCTGTGAAAAGCAGGAAATGAATAACAACAGCGTAGGTGCGT
TGGCTATGTCCGGTGGCATTCTTCAGAATTTTCATTAATGACACCTG

Sequence 4586

TTGAGCTCCCGCGGTGGCGGCGGGACTGGCCTTATGTGTCNTTATAGCAGTGGACTGGGC
TGCTCGCACCAGACCCTCCAATTCAGCACCCTGAAATTCTTGGTCTCCACCGGCCAGTT
CTTTAATGGTCTACCATTACAGCCAGAAGAGGTAACCTGGAATGCCCCNTCTTCAATTTCC
CTTGGCTTGGTNGGTTGGGGAATTGGTTGGAAAAAGGAAAATTCCTTGGGTAAAGGTTN
CCGGGGGCCCCCTTTTTTTTCTTCCAAATTTCTTNGGGGGNCCAAAAANGGGCCCCC
TTTAAATTTCCCTTTTCCCCCCTTCTTAAAAANCCCTTTTTTNCCCCCA
ANGANTTCCCCTTTTTTTTCCCCCCTANANANGGGGGTTTCCNNTTTTATAAAGNGGNAAA
AAGGGGGGGGGGGCCCCCCCCCTCTCCNAAANTANCCCTTTAAATTTCCCAAAGGAGAAAT
TACCCTTTGGGGGGGGGGNCCCCCTTNAANTTTTTGGGGGGGGTGTNCCAAANTTTTTCC
CCCCAAAAAATTNGGGGAANCCTTTAAATNGGGGGGGGAAATNGGGGNTNTTTNGGGGN
NTTTTTTTNAAAAGANCCCTTTGGGGGCNTTTTTTCCCCAAAANANGGGNCCCCCCTT
TTTCCAAAAAAATTTTTTTTTTTTTTGGGGGGGGGAAANCCANANNGGGCCNAAAAAC
CCCTTTNGGGGGGGTTTTTTNGGGGAACCCNAAAAANCCCCCNGGGGNTNGGGGGTGC
NNANATTTTGGGGNAAAAANCCTTTTTCCCCCCCCCGGGGTGGGGGCCCTTTTAAACC
CCCCAAANGGGCCCCCCCCCAATTGGGGCCCTTTTCTCCCCCTTTATCTTTTACNTTT
NGGGGCCCTTTTTTTGGGCCCAAANAANAATAATTGGGGGGGCCAAANTTTTTCNAAAA
AATT

Sequence 4587

ACCCGGAACCTTCCCAACTTTAATTTAAAGGGGGGGNCCCGGAAAAATTTTTTGGGG
GGNAAGGGTCCCTTTCCCCCAAACCCCGGCCGGGGGGNTTGGGGGGCCCGGGAGGCCCG
CCCGGCCCNCCAATTTCCCTTTNTTGGGNGGGGGTTTCCCAAATTTCCCGGGNAAATTGG
GNAAAGGNCCCCCTTTNCGGGCCCCCCCCNTTGGGTGTGNCCCCNTTGGGGGGTTTCCC
CCCCGGGCCCTTTTTTGGGTGGGAAAGGGGGGGGNAAAAAGGGGGGNAACCCAATTTTT
AAAGGNAAAAANAATAATTGGGNAGAATTNTTGGGAATTTGGTTTGGGTNTTCCCCTTT
TTAAAAAAGGGGGAAATTGGGGGGGNCCAANGGGGAAAAAAAACCCAAGGAAATTTCCC
TTTGGTTTTTGGGTGGGGGAATTAATTTTTTTAATTTTTTTGGAAAACCCGGNGGGGNA
TTTTAACCCAANGGAATTTTTTTGGGAAAAAAATTTGGAAAAAGNTTCAACCAAAAAAAG
GTTTGGNAAGGCCCAATTTTACCNCCCAAATTTGGGAAAGGAAAGGNGGAAAAANA
CCNAANGTAAACCCGGGAAGGGAAAAANNAATAATTCCNTTTTTTGGAAATTGGGGGGCCC

GGCCGGGTTTAAAAATTAAANCCGGNAAACNTTNCCAAACCTTTAATTTNAAAGGGGGGGGN
CCCGGGNAAAAAATTNTTGGGGGGNNAAGGNCCCTTTCCCCCAANCCNCCCGGNCCGG
GGGGTTTGGGGGGNCCCGGGGGGNCCCNCCCGGCCCCCCCCCCGGGGGNGGNCCCAAAGGG
GGGNTTAAACCCTTNT
TNTTNTNGGGGGGNCCCTTTCCCTTTTTTNTTGGGNTTAAAAAAAANTTNTNCCCTTTTTTT
TAAATTTTTTGGGNCCCCAACGGGGNNAAGATTNGNAAAAAACCNCCCTTTAAAAAAA
GGNGTGGGGGGCCCTTTCCAAACCAAAAAAGAGAAGANTGGGCCCCCCCTTAAATTNTTTT
TNCTTNTTTTCCAAAAATTTTAAAAACCTTTAACCAAAAGGGGGGGAACCAAAAAAACC
AACCCAATTTCTTTTCAAAAAAAGGGTTTTTTGGNAAGNNAANTAAAAAGGGTTGGGAAA
CCCCCAACGGNTTNAATTTGGGAAATTTTTTTTGGGCCCCCCAAAAAATAATTTTTTCNTTT
TAAAAAAAAGGGCCGGGCCAAACNCTTTCCAAACCCCCAATTTNGGAAAAAAAAAATTTGG
GGGGGAAATTAAAAANANGGGGGGTTTTTTAANCCCCCTTTTTTTTTTGGGGGGGGGGGG
AAATTTTTTTTTGGGCCCAACCCTTTGGGNCCAAATTGGGAAAAAATTTTTTCCCTTTGG
GTTGGGAAAAAAAAAAAAAGGGCCCTTTTTTGGGTTTTTTGGGGGGAAATTAAAAATTTTTTGG
GGTGGGGAAATTTAANGGGAAAGGGAAAATTTANGGGGNAAGGGNAAAAAATTTGGGA
AAAAAGGNTTAANTTTAATTTTTTTAATTTTAANTTTAAAAAAGGGA

Table 1

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Sequence 4591

GAAC TACACTAATTAGAGGGNCCGAAAATGTNNGGNAAGTCCTGCCACCCCGNCCGNGN
TGGGGNCCGGGNCGCCGCCCCCGGGGGNCCAGGGGNTAACNTTTTGGNAAGCCTTG
GNTGGAACAATTCCTTCCNCTGGAAAAATTTTNCANGNTGGGGNCTTTTGGCCTTTT
TTTAATTTAAAAAGCCTTCCTTGGGCGAGGNTNAGGNAAGAAGGCCAACCCCAAAAAAA
TGGAATTGGGGGATTAATTAATTTTAAAAAAAAGCCCTGGGCAATTNATTTTTTTTT
TTAAAGGAAAAAACCAAGGNCAAAAAAAAATTTCTTTAAGGGGGGGCCCTTTTNG
GNTTTTCCCCCTTTTGGGTTTTTGGGAAAAAAAAGGGAAAAGGGGGTTTTAAAGGGG
GGGGGGCCCNAAAGGGTTTTNGGGGGGGTTTTTTTNAAGGGAAAAAAAANCCCCCCTTT
NCCCCCCTTTGGGGGGGNCCCCCTTTGGGGAAAACCCCTTTGGGGTTTTGGGGGGGGG
GGGGGAAAAAAAANTTTTTTNGGGGAAAANTTTTTTTTTTNGGGGGCCCCCTTTTGGG
GNCCCCNTTTTNAAGGGNAAAAAGGGGGGGGAAAAAGGGGGGGGGGGGNTTTTTAA
AAGGGGAAAAATTTTTTTTGGGGGGGGGGGGGGGGTTTTTTTTTTTTTTTTCCCCCCCCAA
AAAAAAAAGGGNTTTTCCCTTTTTTTTTTTTTTTTTTTTAAAAAAGGGGAAAAACC
CCCCCCCCCAAAGGGNAAAACCCCCCAAAAGGNCCCCTTTTGGGGAAAAAAA
CCCCAAAAAAGGGGGGGGGGGNAAAAAAGGGGGGGGGGNCCCCCAAATTTNGG
GGGGGTTNAAAGGGGNTTTTTTGGGGTTTTTTTTTNAAGGGTTTTCCCCGGGTTN
CCTT

Sequence 4592

CGCGCGTAATACGACTCACTATTAGGGGNCCGAAATTGGGGNAGNCTCCACNCGNCGGNT
GGGNCCGGGGCGCGGNAGGGNTAACNCAANAGGGNCCCCCAAATNCANCNCCCCAAAAA
CCCAGGNTGGNACCCAGGGGGAAAAACCAATNAAANTNTCTNCCCTTGGGTNTGGGGGGG
AANCCCAAGGGTNTNCTTCGGGGGAAAATTTTTTTGGNCCACCCCAAACCANTGGGAAT
TCCCCCATTAAGGTTTTTCCACCAATTCNTAAAACCGGTTTNNCCCTTTTTTTCAAGGG
GAAAAAACCCAAAAAGGGGAACCAGGGTGGGTTCCTTTNCCCAACCTTGGNCNCCCTTG
GAAAAATTAAGGGGGGGTGGGAACCAATTAATTTTTTTTCNCAATTGGGGGGGAAAAAC
CCCCCGGAAACCTTCNCCCCCNATTTTTTTTAAACCAGGGGGAAAAATTTTTAAAT
TAATTAGGNCCAAGGAAAGNAATTAAAGGNCCATTAAATGGGTNTTTAAGGAAACCTTC
CTTGGCCGGTTGGGAACCCCCCAATTAAGNTNTAAACCCCCCGGGGGACCCAAAATTA
ACCAACCAAAGGGACCAAACNTTCCAACCCCAAAAATTCGGGTTCGGGGGGGGGGGNA
GGCCCCGGAAAAACCAAAGGCCAATTTTTTTTCTTTGGTTGGGGNAACCTTGGGGGGGA
ACCCCGGGAATTGGNAAAACCAATTTTTTTTNCCTTTCCCGGGCCAACCCNTTAACCC
CAAAAAAAGGGGGGGGAAAAATTCGGGGGGGGGGTTTTTTCCCCCACAACCAATTTGGC
CCAACNTTTTTTAAAGGGGGAAAAAAAAGGGGAAAAAAAACCCCAAACCCG
GTTTTTTGGGGGGGGGTGGGCCCCNA

Sequence 4593

ATAACGACNTNCAACTTTATTAGGGGGNCCGAAAATTTGGGGGNAGNCTNCCCAACNCC
GNCCGNGNTGGGGGCCCGGGGCNCCGNAAGGGNTTACCNTNANCTTAACCCTGGNCNCTT
AGGNTTTNAAANCTTAAANTAAACCAAATTAATTTTTTCCAAAAATTTAATTAANATT
CCCCTGGNATTAAACCAATTGGGGGAAAAATTCNCNGNTAATTTTAATTTTAATTNCTTT
NCCCTTCCCCAACTTGGGGGAAAACCTTGGGCTTGAATTTTTTTTAAAAAANC GGCTT
TAACCTTTTAAAAATTTTCCCTTTTNCAAAAAATTTCTTNCCTTAAAAAATTTTT
TAAAAAAACCAACCAATTCCTTTTTTTTCCAAANCCAAGGGGTAAATTTTAANTTGG
GNTNCCAATTTTAAANCCAATTTTTTAAGGGAAATTAATTTGGGGGTAAATTTTTTGGG
TTTCCCCCCTTTAAAAAGGGCCCAAACCTTTGGGCCNAACCCAATTTTAAAAAAA
ACCAAAAAGGGNCCCCCAAATTTAATTTTTTTTAAACCCCAAAAATTTAAATTTAA
AAAAAATTTGGGCCCAAAAANAAAAAGGGNTTTAAGGGGAAATTTGGNAAAAAAAATTN
TTTTTGGGGGGGAAAAATTTTTTTTTTTTTTCCAAATTTAAAAAAGGGAAAAAGGGAA
AGGGTTTCCAAAAAAAATAAATTTTTTAAATTTAACCCCCCTTTAAATTTTTT
TTCCAAAAAAAATAAATTTGGGNAAAACCCCAAAAAGGGGAAAAAAAACCCIT
TAANAAAAAATTTTTTAAAAAATTTAAAAAATTTNCCAATTTTTTTTGGGGTTAAAAA
GGGAAAACCTTTGGGTNNGGGGGGGTTAAATTTTCCCTTTTTTAAAAAAAACCC
CCA

Sequence 4594

GCCGCCGTAAATAACGAACNTCAACTTTATTAGGGGGNCCGAAAATTTGGGGGAAGACC
TNCCCCACNCCGNCCGGGNTGGGGNCCGGGNCNCCGGGGGNCCANTTTTTCTTNNCCCC
NAAGGGGGGAATTCCTTCCTTGGGTGGCCNTTTCCCTTTTTTTTTGGNTGGCCCTTTNCC

Table 1

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CTTGGNTGGNTGGNTGGNTGGGGGAATNATTTTTTAAAAAAGGGGGGGGGGCTTGGGGGA
AAAAANTGGGTGNCACAAAAAACCATTGGTCCAANCCTTAACNTTTAAGNAACC
ATTTTAATTAATTTTGGTNCCATTCTTTGGCCTTGGTTTTTCCTTAAGGGTTGGGAATG
GGTTTTAAAAATTTTAAATTCCTTCCCCCAATTTTTTTCCAAAGGCCCAAAGGAAATTGG
GTTNNGGTTTGGGGGCCCCCTTCCAAAGGNAAATTTGGGGGGTTAAAAAAAAGGNTTCC
CAANGGCCCAAAGGGCCCCCTTNTTTTTCCCTTTTTTAAAATTTTTTTTNCCTTTCCAAA
CCCCCTTTCCNTTGGGTTTAAAATTTCCCAAATTTCCAAAGGGGGGGTTNCCCCCTTTTTT
TCCCCCCCCAACCCCCCAAATTGGGNCCAAAGGGAAAATTCCTTTTTTTCCCCCTTGGGGG
GGTTTCCCTTTCCCCCCCCCTTTNCCGGGGGGGGCCTTTGGGCCCAAAGGGCCCCCCCCAACCC
AAACCCAAAAAAAATTCCTTTTCCCCCCCCCCCCCTTTCTTTTGGGGTTNTTTTTTTTTT
TTTCTTTTGGGNAAATTGGGNCCCCCAAAGGGCCCCCTTTTTTCTTTTCCCGGGGGGCCCA
ACCCCTTTTTTGGGGCCCTTAAAATTTNTTTTTTCCCTTTCCCCCCCCCGGGCCCGGTTTA
AACCCCTTTTCCCGGGGGGGCCCCCCCCGGGCCCTTTCTTTTAAAGGGGAAAAAACCTTT
AAAGGGGTTTGGGGGG

Sequence 4595

CCGGGCAGGTACGATATGAACTACAGTTGTTGGATAGCTCGAGTAAATAACTTTTTGT
TGTTTTTAGCCTAAGAGTGGTGACGCCGCTGCAGCTGCTGATGCTTCTCCTAGTCTCAAT
CGAGAAGAAGTGATGAACTCCTCAGTATATTTGAGTCTCGGTTGTCATTTCTTCTCCTT
CAGTCCATTAACTGCTATCTTCAACTAAAAAGAAAACAAGGTAAATTAAGTGGTTATTT
GTAGGAATTTCTTTCTTAGCACCTACCTATAAAAATTTTCTCTACCAACATCATAAAGA
AAAAGTAGGGGCCAGGCACATTGGCTCACACCTGCAATCCCAGCACTTTGGGAGGCCAAG
GCAGGCAGATCACTTGAGTTCAGGAGTTCGAGACCAGCCCCGCCAACATGG

Sequence 4596

CCGCGGTGGCGGCCGAGGTACTGGCTCCTAACGTATTCTTCCAAAGCACACTGAGACTTT
TCCTGCAAGCTTTCCACATGGGCTACATCAGAGAGACCACAGGCATCTGGAAGAAAGTTT
AAAAACAGAAGAAGAAGAAGAAAAAGAAGAAGAAGAAATTCAGTCATCAGATTAA
GAGGTTTGAATTGGGTCACATGAGGTGTGTGCACAGAGCTCTGTCAAACCTGCCCCCCCCG
CGTACCTGCCCCG

Sequence 4597

CCGCGGTGGCGGCCGAGGTACGCGGGGAGAGACAAAAACAGAAGAGGGGAAACATGTTTC
CTACTGACGACAGGTGATTACACGTGTGCTTCTGATGGAGGGATCAGGAAAGGATATGAA
AAATCCCNAAGCTTAAACAACATAGCGGGCTTGGCAGGCAATGCTCTGAGGCTCTCTCCA
GTAACATCACCTTACAACCTCTCCTTGTCTCTGAGGCGCTCTCGATCTCCCATCCCATCT
ATCTTGTAACCAAACAACCAAACCTGCATCAGTCGGCTAAATTGTATTAATTCAAGTGCT
GTTTACCCCATTAATGGAAATAATTAATGTAGAGTTACTCCAGGCTCCATTAATACAGTA
TAAATCTTGATGATACTACAAATTTGAAGTCAGAAAATGCCACTTGGGTAGCT

Sequence 4598

CCGCGGTGGCGGCCGAGGTACCAACNGNTATANCACNATNCAACNGGCATNCCTCATGGA
ANNNNCTGCTATCTGNNTTCATNAANGNCNGCATNNACNGNACCNCNNNNNCANTNCCN
NANGCTNACNNANNNACTCNCACACACNCATGGCTCACNNTGCNNTCCAAAAAGCNAGNG
GACATTGGTAGAAGAAGGGCTACTATAAAATAACCAANGGGNNTTGAATAACTCAGTTNT
GGTNAAAGACTACATGGCACATGCTNTCATTNTGNTAACTAAAGAAATAACTCCTCTATT
GGAAAATTANCTGTTTCANGCAGATTAACGGATGTGTCCACCTGAANGGNGACCCCCACTG
TGGCCTTTTACTAGCAGGAAAGGGCT

Sequence 4599

CCGCGGTGGCGGCCGAGGTACCATCAACTCACANATACTAAAAGGTTTCATGATCAAAAT
GGCTACTACTNCCCCCANAAACCAAAACAGAGTAAAGCACAAAGTCTTTGGCTCTCCTTTAA
AGAAAACAGCAGGTTACCATTTCTTAACCAGACCTTTGTTTGNCTACCAGAAGGGCAAATA
CCACATTTGTGCATCACTGAGTAATAACACCA

Sequence 4600

GCCCCGCCGGGCAGGTACCCAGCNTGATGATGTTCCACAAAAGTAGCAAAACATACACA
ATCTNNGTTCCACTCTACAGGAAATCCTGGAAGTGGACTACAAGAGGGGAATAGTACAGG
GGTGTTGGCAAAGAGGGGGGGGTTTNCCTTNACGGGTTTTTGGGAGTTGGCTGNAGGGNTTA
AGGGNGAACCAANGGGAATTANGNAAAGGGTTAGCGTTANATTATAACCACTTTCAATGGT
GGGGTTNATTTANACCNTCTAAGNGNGNCAAGGAATAGCTGGNTCAAAANTGCTTATTTT
TCTCCAAAAGGGNTTTTTTAACGCCCAATTTATAATTAATNAAGNGGGTNANTTAATANAN
ATANTTTNACANAATTAANATAAAAAAGGCTTTTTTCAATTAATNNGTTGGNTNGNTTGG

Table 1

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NTAACTTANTTNAATTGGGGNGGNTNTTAAAATTAACCNANCCAAANGCNANCCAATTTA
AC

Sequence 4601

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCGCAAATTA
AAACACCATGAAGATAACTGTTCTTGCTGATATTCAGCTATTTTTCTTGAATAAGTGCTA
TGTGTATAACGCTTTTGGCTAATTTCCAAAGTTCTGAAAAAGCTGATTTTGACTATTTT
TGTCATGTTTTTCATTCTTTTTGTGAAGATGATTTTCAGAGGTCCTTACTTTTTTTTTT
TGGCTGATGTCACCAACATGTAGCTTTTTAAGTTTAGGTTAATTAAGTAATAATTA
GCCTAGGCAACATAGCAAGACCTCATCTCCTGAAAAAANAANAAGGTACCCTCGGC
CGCTTCTAGAACTAGNGGGATCCCCCGGGCTG

Sequence 4602

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGANACTTTTTATTC
TTTTTCAGGGACCGNTNATCTAAAAAATGTTAAGGCTTATGCTTTCAGATCTCANTCCAAT
TTCTAGAAATTAACAATGAGTCCTTTTATAGCACTGNACCTTCTCTTCTGCCTTCCCN
ACCTCCACCCCAAACCTTGCTTTGGGTGTTCTTTAATCTTTCAAGGGAGTGATAAATGCCA
CAAACCTCTTAAATAAAGGGCTGAAATGGCAGCGTATGACTGTTGTTGACGTGCCTTTAAA
GTAGTATTAGTCTTCTAGAAATNCTAATCTAATTNTTAGAAACAGAAAACAGAGG

Sequence 4603

NCGNCCGGNCAGGCACTCTGGTAAGCTTGTTGTATGTGCCAAGCTGAAGCTCCCTCAGTA
TGAGGCGTGTGGCCANAGTAGCCATTGTCAACAGCANANATGCTGTTAGAACTCAATC
CCAACCTTAGTCCANAATNNATTTCCAAGNTCCCTTTTTTCATTGCNTANCCTGCCAATTC
AAACNTCNTAGCTTNGAATNTNATAGCTTCGGCCCATCCCAAANGNATTNNTTNAGAGTT
TTNCNGCTCAAAGGAGNGTATANGGGCANGTGAAAAANTNACCCCTNTNGGNAGNGGANT
ATTNGACCTTNGGGTTAGAAATNACTTTTGAGATAANTNCCANTGGCCACAATAGNCCGT
CGGCAATTGTTTACNGTNGGAACGNAAGNCCATTTTACNTTTTTTCCAATTTTCCCCCCT
TG

Sequence 4604

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATAGCA
TCTGTGGAAAATCTTAGAAAAAACATTTTCTCCCCCACCCTCTCTTCCCTGTTAAGA
CCATCCCAAATGCTTCAAGTAAAAAATAACAAGTTTAAGGGGTAAAGCACTTTTAAAGT
CTGATTAAGGGGGTGGGGGGAAAAAAGAGTAACTACCAGCCATTTCTCCAATGGACATC
TCTTCCACAGACCTCAACGTGAGAACTGCTCTAGTTTCTATAAACTGTAAACC'TGTGGTG
GTCTGATTATCCTGATATTGGATTTTCTTGTTTCTGTACACCTTGAGTCATTTGCCTT
TAGGATTCTAGACAGACCTAAGGGAAAAAGAACTGAAAACATATTTTGCCCCCACCCTCA
CAAAAAAAAATTAAGTAAACTCC

Sequence 4605

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAATTTTCC
AGAATCTTGCATACAGTCGCCTGTGCTCTCTTAAATGGAATAAATACCTGGCTGGTCTT
TTTTCTTTTAACTTTTTTTTTGTCAACGAATGTCTTTGTTTGTAGAAAGAGGCATTTTCAAG
TGTTTTGATGTGACCCACCGTGACCTAAAACCATTAAGATTCTAAGCAAAAATAATAA
GGCCAACTTTAGTGTAATAGCATGAAAGGCTTGAAACTAAATAAAAAATTATTTTTT
CCTTTAAGAGTAAATAGCTAGGCTAGGCATGGTAGTTCATACCTGTGAACCTGTGAACCA
TTGCTTTGGGGGGCTGAGGTGAAAGGATTGCTTGAGCCCAGAATTTTCAAGACGAGCCTG
GGCAACATAG

Sequence 4606

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGTT
TTGTCCTCTTTAAATAAGGAAAATATACCTTGTAAGGTTACTGTGAGACTTAAATGAAT
TACTAAATGTAAAAAATTTATAAGATTCTTGGCACATGGTAACTGCCATACCTATTACC
CATAACTAACTGATTTTTTACACAATTTACTATAATATAACCACAATTCTTATTCAAACA
TCCTGGACCTAGCTAACAGTGACACGTGATGATTTCTGAATGAGTTTGTAGAAGAACTG
AGTCCCAAAGAGTGCAACTTTCTCCCACTGTCAGAAGGCCTACACACCACTCTTCTCAGA
GAGGTGGAAGAATTGAGCTGTGCTTTGGAACCTCTCGATTACATCAGGGAACAGATTGCTG
ATTGGTGACCAGGATAGNCAAGTGTTAATAG

Sequence 4607

NCTTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCTATCAATTCAGGTT
TCCTTAGCAAATAAGTGCTTCAGATATACTCGCAAGGGCTCCTGAATTGGAGTTTTCTGC
ATCATCTCCATAAAAAATTTTTTTCACCTCTAAAGTCATCAAAGAATTGAAGCAGGCCCT

Table 1

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TGGGAAATATCCTTAAGGGGAGAGAGTGGCTCCAAAAATAACCTTCCTTCCAGCACCACA
CCACCAGCTCAGAGAATTCACCTTCACGGTGGGACGGTCACTCAAAGTCTACTGTGAACCT
CATCCCCAAAAGGTAATGGCAAAGGCTAGAGGAAAATCCTAAACAATCACCTATGCCTT
GTATCTTTCTCTAGAAACACAATCTACTAGTAGAAAAACCAATTTGAAATTTTAAAAATG
TGGATGCTACTCATGAGGGCTGTCATCAACCGTA

Sequence 4608

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACNNCNAAGGTNTTNN
GGCAACCANCAGCAAGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAAATA
AAGTTTTTTTCTCTTTGAAAGATACTAGATTAATACTACT

Sequence 4609

CCGCGGTGGCGGCCCGCCGGGCAGGTACTGGTCTACAGGGACAAGCAGTCTTTAAAACGA
AACTCACCTTCAGACCTCACTCTACGGACAGTGCCACACATAGAAAGATGACTCTGTGTCAC
TTGCAGATAGGTGTTCAAAGACACAGAAGATTAGAATCTTGCCAATGGCTGGTCGTGATC
CTGAATGCCAACGCACAGAAATGATTAAGAAAGAAGAAGAACGTTTGAGGGCTTCCATAC
GTAGGGAATCTCAGCAGCGCCGAATGAGAGAGAAACAGTACCAGCGGGGGCTGAGCGCCA
GTTACCTGGAACCTGATCGATACGATGAGGAGGAGGAAGGCGAAGGAGTCCATCAGCTTG
GCTGCCATTAAAAACCCGATATAAAGGGGGCATTGAGAGGAACCGAGCCAGAAATCTAT
TCAT

Sequence 4610

CGCCCGGGCAGGTACAGGTGGGTGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTT
CACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATCTGCCACCACG
CCTGGCTAATTTTTTTTGATTTTTTAAGTAGAGACGGGATTTCACTGTATTAGCCAGGATG
GTCTCAATCTCCTGACCTCATGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACA
GGCATGAGCCACTGCGCCCAGCCGAGTCATTTTTTAATACTACTGCATGTGAAGTTAACA
CAATCATTTCCCAAATTGAAGTTTTAGATGGGCCCTCAAATTTTTTAGGATATGGTTTTCC
TACANGTTTATATTGAAAAGTATGGGGTATCTCCTATTACTCCTCTNTTTATTNGTCTTA
AAGGAAAAGGGAAGAAGCCAAAAAC

Sequence 4611

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTCTCTGCAGCCTTAAACTCCTGGGCTCAAGC
AATCCTCCACCTTAGCCCTCCAAATAGCTGGGACTACGGACATGCACCATTAAATTTAA
AAAAATATATATATATACACACACACACACACATAGTGATGTGGTCTCACTCTGTTGC
CCAGGCTGGTCTCAAATCCTTGGCCTTAAGCTATCCTCCACCTTGGCCTCCCAAAGTGC
TGGGATTACAGGTGTGAGCCACTGTGCCTGGCCTGATAAGGTGATATTTGAGCAGAGACA
TTTAAAAAGTGAGAGAAGCAGCCATGTGGTTATCTACAGTCCAATATTCCAGCACAAAGG
ACAGAGGGGGAACATACTTGGTGTGTGTGAGTAACATGGAGGAAGCATGGCTAAGTGGCA
TGAACAAGAAGGTATGGTANGTGCAAAGGTGTAGGTGCAACAAGTGGTANGTGACANG
GTGTANGGGCAGNGGATGTANGTTCAANGGATGTANGTGCANACAAGNGGTAAGNGCAA
CAGTGGTACGTGCCANAGCGTGTNGATGCAAACGGATGTAGGTACCT

Sequence 4612

CGCGGTGGCGGCCGAGGACTTTTTTCTTTTTTTTTTTTTTTTTTTTTTGGGGGATGGAGTC
TCACTCTGTCTCCAGGCTGGAGTGCGGTGGCGTGATCTTGGCTCACTGCAACCTCCACTT
TCCGGGTTCAGCGGTTCTCCTGCCTCAACCTCCGAGTGGCTGGGACTGCAGGCATGTGC
CACCACACCTGGCTCATTTTTGTATTTTTAGTGGAGACAGGGTTTACCATGTTGGCCAG
GATGGTCTTGATCTCTTGACCTCGTGATCCGCCACCTTGGCCTCCCAAAGTGCTGGATTG
CAGGTGTGAGCCACCGTGCCTGGCCTAAATAAATAATTTTCGTAACATATAAATCCACTT
CCCATAAAGAATTAAGGGTCAAAGACATTCTATTTGAACACTTGCAATTACCTAAATCT
AAGTTGGCCTTTGGTTGATAGANCCTCTGCCTCGGAATTTCAATGAAGTTTTTTTCT

Sequence 4613

TANGGCGAATTGGAGCTCCACCCGCGGNGGCGGCCGAGGTACATACTCCCATTTCCACAGC
TTAGTCTAACATGCAAANGGGCATGATTAGAGATTGTTGGTCATTAAGAAGAACAGGAG
GAGACGTTCTGGAGCCTTGGCACTATGCCTGGGGAAGAGAGGATCTCAACACCCCTCAAC
CATCTCTGGGCCAGAGGAAAATCACCTANGGGTNGTCTTAAAGAGTTCCACGGGAGAAGA
NATTATGCTGTCTGATGACCCCTTACNGANTTCTNCAGGTATGTCCCTACTTTTTGNNGT
CCAGCTGAGTTTATNAACTTGTNCTGCTTCTGAGGTGCGGTTTCTTTTNTACCATGTGAA
GGTTANAANATCTGCTTTACTGNCTTTGCTCTCTNTTCTTACTTTTCCAGAATTCCTAC
ACTTACTACATAACTAAAACTGGA

Sequence 4614

Table 1

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TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAATTTCTGTCA
GTTAAGGGGTTCACTGCTTTGGTGGAATTGGTGGAATTGCTAGCAGGTTCCACGATGT
TTATTTTTTTCTCCATGTTGTATATCATTACCATTTACATACGCGTTTCTATTTTTCTT
CCTCTCCTCCTGATCTCCTTAAAAATGAATCTACAAGTTGGTGCGTTTTCCTCCCTCCTC
TTTGGCCAGTTCCACAGTTCAGTTCTTCTGAAAACAGGGATGATGAACTTGTAGGATCA
GGACAAATGTGTGTTTTTCAAAAACCTTAAGGCTGGGTGTGAAACACCTTCTGTGGACAAG
GATTTGTAACTTCTCTCCTCCCTCCAGCTGCGGCCCAAGCCTAACTGATAGTTACTTG
ATTCAAGTGTGCTAGACACTTAAATAGCATCTATGTCTCTTCAAGGGAATTTGNCAAAT
AATGCTGTTTAACTAATTGTTGCAAGCAATTGCATATTAACAAGCTGTGATTTTGTGGA
CAGCAANTATTATGGCCAAAAGCCAGTTTCTTTGGCATTTCAAAAATAATGCAATAAAAA
ACTAAGTTGAGGGTAACCTTGANGCTGGAAAATGCCNTTTTCA

Sequence 4615

AGGTACTTAGGGTAAGCATTAACAATATTATTCAAAATGTTATATAGAGTTCAACTGTAT
ACAATAGAGCATTTATTAAAGTGTGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGGCA
GGCGGCTCACTTGAGGTTAGGAGGAAAGCAGACTGGCCAACATGGTGAAACCCCGCCTCC
ACTGAAAATACAAAAAATTAGCCAGGCCGTCATGGCGCACCTGTAGTCCCAGCCACTTTT
TAGTATTTTTTAGTAGAGACCGGAGTTTCAACATGTTGGCCAGGCTGGTCTTGAACCTCGTG
ACCTCAAGTGATCCGCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCCGCGAGCCAC
CATACCCGGCCTCTTATACAATAAAGAGATTTTTTTTAAAAAAGATATAAATTCACACAT
ATGAGGAAAACCTGGAGAGGAAAAGATAGCAACAAAAATTTTGGAACTGGAAAG

Sequence 4616

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATTAATGGTGGTTTTTGGATTACGAATTTT
AAATTATTATAACTAGGCCCAAACACATCTTTATCAAAATAGGAAACGTTACAATCAACA
CATTTTTTTGCCAATGAGAAATAAGTTTGTATTATCCTGTAGCCGTAAAAATCCATGCTTC
GGGGATTTCGATGAACTCTTGGAAGCATTCTTCTGCATCCTGATGGTTGTGGAAGCATTTT
CCCTGCAAAAAATTTTCTAGATGCTTGGAAGAGTGGTAGTCGGTTGGTGAGAGGTCAGTT
CAATATGGTGGATGAGGCAAACTTTGTAGCCCAATTCATTCAACTTTTGAAATGTTGGT
TGTGCAACCATGTTGTTTCGGGGTGTGTCGTGGAGAAAGAACTGGGACCCTTTCTGT

Sequence 4617

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTATC
TCTAGCCGGGCCTGAGCTGCGCTAGCACCCCCCCCAGGAGACCGTTGCAGTCGGCCAGCC
CCCTTCTCCACGGTAACCATGTGCGACCGAAAGGCCGTGATCAAAAATGCGGACATGTCG
GAAGAGATGCAACAGGACTCGGTGGAGTGCCTACTCAGGCGCTGGAGAAATACAAACATA
GAGAAGGACATTGCGGCTCATATCAAGAAGGAATTTGACAAGAAGTACTAATATTTAAAC
TGAAGTGTTTAATGCCTAAATTTTATATATAATTCTACTTTAAAAATAAGCCTTATGTCT
TTTATACCAAATATGAAGTAGTTTTCTAAAGCAATGAAATTAGGAAAACTATATAATTT
TCAGTATCTGATTATACTGCTT

Sequence 4618

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCTGCCTCCTGCTTGC
CCACAGCATGGGGTTAACGGCTGAAGTTGGGCAGCAAAGCCTGAAGTGTGTTTTCTGTGTT
GGCAGGGCAAATTCATCCGCATCAACTTCGACGTCACGGGTTACATCGTGGGAGCCAACA
TTGAGACCTATCTGCTAGAAAAATCACGGGCAATTCGCCAAGCCAGAGACGAGAGGACAT
TCCACATCTTTTACTACATGATTGCTGGAGCCAAGGAGAAGATGAGAAGTGAAGTGTGCTTT
TGGAGGGCTTCAACAACCTACACCTTCCTCTCCAATGGCTTTGTGCCCATCCCAGCAGCCC
AGGATGATGAGATGTTCCAGGAAACCGTGGAGGCCATGGCAATCATGGGTTTCAGCGAGG
GAGGGAGCAGCTATTGTAAGCCTCACA

Sequence 4619

TGNGGCGGGCGCCGGGCAGGNACCTTTGATCTTATAGATACTGGGGAGTGGTANGTGGTA
GATAATGTCAAGTAACCGCCCTCATGGTGTGGGTGAGGAAGTGAGGCCTTAGTGTGNTT
GGACTGTGCTCANCCACACATTCTTCTTATTGCCACNCTCCCCAACAGTGGAGGGTTCT
TTTATCATTGGGACANTTCTCAGATCAATAAAGCCTTTGNCCANANAGCTAAATNTAAGG
CT

Sequence 4620

CCGCGGTGGCGGCCGAGGTACTAATCTGGGCATTGTTCTAGGCACCTGAAATAAATTATC
TCAATTCATCCTTCAAATAACCCAGTGAAGTAGATCATACTATATCCCACTTTATAGATC
ATACTGTGTATCCCATTTTATGGATGGGGAACCTGAGGCTCAGAGATGAGAAATGATCAT
CCCATCCTTCCACATNCACTCAACTAGTAAACAATTNNGGGCTAAACTTCAGCTCCAGCT

Table 1

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CCATGCAATTCCAAGTCCTCGTTGAACCACTTTGTTATTGAGCTTGCTCCAACCTGATCTC
CTGTGTCTCTGGCCATCCCATCGTTTCAAGTAGTGCCCCAGTTTGAAAGTCCACTTCATC
ATCAGGCATCCAGTGCCTTCCAGCCTTTAATTGTCTCCTATCAAACCTGGAAACAATTAGT
CTGAGAAAATCATCCATGCCAGTGAATTAATTTATTGAATTTGT

Sequence 4621

ATAGGGCGAATTGGATTTCCCCGCGGTGGCGGCCGAGGTACTAAGAAAAATTGTTTTGCC
TTGAGATGCTGTTAATCTGTAACCTTTAGCCCCAACCTGTGCTCACGGAAACATGTGCTG
TAAGGTTTAAGGGATCTACGGCTGTGCAGGATGTACAGCAAAAAAGAACTGAGAAGCCC
AAACTGCTTTCTTGTTAACATCCACTTTATCCAACCAATGGGGGAAACCTTCTTATACTT
TGGTTCCATTATGAAGTTGGGACAATTGCTTGCTATCACACCTGGCAGGTAAACCAATGC
CAAGAGAGTGATGGAAACCATTTGGCAAGACTTTGTTGATGACCAGGATTGGAATTTTATA
AAAATATTGTTGATGGGAAGTTGCTAAAGGGTGAATTACTTCCCTCAGAAGAGTGTAAG
AAAAGTCAGAGATGCTATAATAGCAGCTATTTTAATTG

Sequence 4622

NGCGGGGGCAGCTGAGTTAGAGTCCCAACTCTTGACTCCATTTGCTATTCTCTTCTTTC
TCCCCCACACCTATCTGGTGGTGGTAGTGGGCGTNNATATTTGCGNTCCTTTTCATTCAA
TTCCTAAAATCTNTNAAAAAATTTTGGGGTTGGGGGGGTANTTGGGGGAAGGCAGGGAA
AGGGGAAAAAGGGAGAAGTAGTAGCTGAAAGAGCAAGAGGAGGACATGGAGAATGAAGAA
GAAGATTAACCTGGAGTTAAGGAACAGATCCCCG

Sequence 4623

CGCCCGGGCAGGTACGCTNNGGGGCTCTCGGNNTTAGNGNGCATGCNTTTCGGCTCCACCA
CGAACATGTAGTAGAGGNCCACATNNNCATCGACAGCAGTAGCAGAAACGTCAGGCCGT
AGCCGAAGCCTCGGAAGGAGCGGCCACGGCAAAGAGACATGGGCTTGCNATGTTGCCAG
TCTGGGCTCAAACCTTCTGGCCTTGGGTGATTCTCTCACCTCAGACTCCTGAGTAGCTGGG
ATTACAGATGCGGGCCACCACACCTGGCTACCAGTGTGCTTTTCTTGGAGAAAGAAGAAA
AGAAGAAAGAAGGAAGAAGAAGAAAGAAAGGAGGAAGAAGGAAGAAGAAGAGCCAGT
GTGATAATACATTGAGTGATTTTTTAAAGTGCATATATGAGCAAAAGGTTATTTTTCC
CTT

Sequence 4624

TAGGGCGTTTTTGNGCTAACCCCGGTGGCGGCCGCCGGGCANNTACGCGGGAATGTNTG
GAAAGCTTTTAGNTTAATGAAATTTACTTCATAAGCATTCAATAAATATTTGCTATTATT
ACTGATGGTTAATATTGTCAACTTGATTGGATTGAAGGATACAAAGTATTGATACTAGGT
GTGTCTGTGAGGATGTTGCTAAAGGGAGATTAACATTTGAAGTCAGTGAGCTGGGAAAGG
CAGACCCACCCTTAATCTGGTGGGCATAATCTAATCAACTGCCAACGTGGCTACAATATA
AGCAGGCAGAAGAATGTGAAAAGAGAGACTAGCCTAGCTTCCAGCCGACATCTTTCTCC
TGTGCTGGATGCTTCCTGCCCTGGAACATCAGACTCCAAGTTCTTCAATTTTGGAACCTCA
GACTGGCTCTCCTTGCTCCTCAGCCTGCAGACGGC

Sequence 4625

CCGCCCGGGCAGGTACGCNNAGGAGTCTCCTCCNTATCGCAGCTGAANNATCTGTTGAGC
GCTTCAGGAAAGGCGGACAGGCGACACTAACAGGTGAAGATCTCGGGAGACCATGACTAA
GAAAAGAATTGCTGTGATTGGGGGAGGAGTGAGCCGGGCTCTCTTTCCATTAAAGTGCTG
CGTANAAAGANGGCTNGNGAACCTGTCTGCTTTTGAAAGGGACTGATGACATCGGAGGG
CTCTGGAGGTTCCAGGAAAATCCTGAAGAAGGAAGGGCCAGTATTTACAAATCAGTGATC
ATCAATACTTCTAAAGAGATGATGTGCTTCAGTGACTATCCAATCCCAGATCATTATCCC
AACTTCATGCATAATGCCAGGGTCTTGAGTATTTAGGATGTATGCCAAAGAATTTGA
CCTTTAAAGTATATTCGATTTAAGAC

Sequence 4626

ACTACGAAATGTTTATTGATTATATTTCCAGCTTTAATTTTCTTGAGTAATTTAACTGAA
TTTACACAGTTTGCTTCATTGTATTTTCAAACAAATAGAAAATAAACTTATTAGGAAGCA
TTTTCTTAAAGTGTTTTTGCTGNCTTNTCTATCTGNTCNTNANGGTTTTGGNCCTTTTNA
TTGAGTTTTCATCGCTTTTGATNGTCAGGGCTTATTTAATCTCTAGTGCATGAAAGTCTC
ATATGTAAAAAATGATTATTCTGAATTTAATCTGTCAATTGGTCATACTTCTAAGGTGTTT
AACCTTATAAAAAATAATATGACTATCAAAAAAGAAACCCTTACCATTATGTTCTAG
GTANTAAAAGTTTTCCAAGGNACAGNTGTNTCACNTAGGTTCTACCATTAGACC

Sequence 4627

CGGTGGCGGCCGCCCGGGCTTGTAATTTTTTTTTTTTTTGANNNAAACATTTCTGAATAA
NTATAATTTTAAATGTCCANAATGTGTAATACAAGGGCCAGAGCTTCCTCCTGGACTCAA

Table 1

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TTTTATAAATTCTCAATTGGTTGGNGAGGCCAATAGGGATACTTTTTCNTGGCAAATNGG
GNACNNGGAAAAAGCTTCCATTCAAAGTCCCTCAATNGGTCATCNGAATCAAAATGGAAT
TAAGTATCTTNATCTNCTCCATCTCTTTCTNATATTCTACAATCCTGGCCTTTTGAGAGA
GACACCCACTCAGC

Sequence 4628

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGNCAGGTACTTNNTTTTTT
TTTTTTTTTTTTTTTTTTTGGAGTANAGTTTAATTTAAAGCTCATTGATCATTTGAGCAAAT
CTCTGGAGGGCAGAACAAG

Sequence 4629

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGACCTGGACGGAAATGGCTAT
ATCAGCAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTNTGTA
ATGAAAATGCCTGAAGATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAN
ATGGACCCCAATTTTNAGACNGAAAACCTCTNCCTTGGAAGAGTTNATCCCGAGGAGCCAA
AAGCGACCCGTTTCATTGTGCGCCTCCTGCAGTGCCGACCCGAGCAGTGCCGGCCAGTTCT
GAGCCCTGCGCCCAACCAATCGAATTTGTANAGCTGCTTGTGTTCCCTTTTGATTCTTTCT
TTTTAACAAATTTTTTTTTTTTTTTTTTGCCAA

Sequence 4630

CCGCGGTGGCGGCCGAGGTACTGTAAATGTGTTTTCTCTTCCTTATGATTTTCTTGATAC
ATGTTCTTTTCTCTAGTTTACTTTATTGTTAAGAATATACTATATAACACATACAAAA
TATGTGTTATTGCCTGTTTATGTTGTGGGTAGGGCTTCTGGTCAACAGTGGGCTACATTA
TCGAACGGTCAACTGTATCCTTAACTTTTTTTCCTCAAATACAACCTTTCAACAATTCTGG
CTTTAGCTAAAAAACTTTAGCTAACTAAAGAACTTCAGCCATTACTCTTTCAGCTCCTT
TATGTTTCACAGACCAGGAGGTAGACCTCAANAAAGTATATTTAGGTGTTCCCTCCTAATAT
TCCTTCCAGCCCCCTTTNCTACAGCTTTGCCTATTTTCAAAC

Sequence 4631

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTTTCCTTTCAGCG
GAGCGCGGCGGCAAGATGGCAGTGCAAATATCCAAGAAGAGGAAGTTTGTGCTGATGGC
ATCTTCAAAGCTGAACCTGAATGAGTTTCTTA

Sequence 4632

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGGGAAAACATCT
TTTTTATTATTATTATTATTATTATTATTATTANAGACAGGTTCTTGTTCTGTTGCCTGG
GCTANAGTGCAGTGGTGCAATCCTAATTCAGTGTGGCCTCAAATTCCTGGGCTCAAGTG
ATCCTCCTGCCCCACCCTTGAGTAGATAGGACTACAGGCACACACCACCATACCTGGATA
ATTTTTTTTATTTTTATTTCGTANAAACGGAGGTCCAGCCAAGTTCCCCAGGCTGGTCTCG
AACTNTTGGCCTCAAGTGATCCTCCATGCCTGGGCTGGAAAACATAACCTTATGGGGAAA
GTTCTTAAAAATGGTTGAANAACAAGACTGAAGGCTAGAATATGAAAGCTT

Sequence 4633

CCGCGGTGGCGGCCGCTCTCCACCAGAAAACCATCGCCAACCTCCTGCGATCAGCTTGTGGC
TTACAAACCTTGTTTAAAAGCTGCTTACATGGACTTCTGTCCTTTAAAAGCTTCCCCCTTG
GCTGTGGCCCTCTGTGTATGCCTGGGATCCTTCCAAGCACTCATAGCCCAGATAGGAATC
CTCTGCTCCTCCCAAATAAATTCATCTGTTCTGGAGAGCCTATCTTTCTGAGGTTGACAC
TTATCTTGCAGAAATGGGGTTCCCACCCATCTTTGATCATGAAGGAAATCTCAGATTTAGA
ACTATGTTGCCAGGCTGCTCTTGAACCTCCTGGGGTCAAGCAGTCTACCTCGGCCTCCCA
GAATGCTGGGATTACAGGCGTGAGCCACCATTTCCAGCCACATTTCTTAAAAAT

Sequence 4634

CCGCGGTGGCGGCCGAGGTACGCGGGCATGCAATCAGTTGAGAGTTCAAATGGAACAAAA
AGCCAAAGGAAGGGCAAATTATCTCTCTCTTCTTGAGTTGTCACATCCATCTTTTTCTGC
CCTTGGACATCGGAGCAGGGCCCAGTGCACCAGGTTTTCTAGCTCTCAAACCTTGTAATG
GTATCTCATGGGACTTCTCAGCCTCCATAATCATGTGAGCCAGTTCTCGTAACAAGTTCC
CTCTTACGTCTATATACATAAAATCTATCTATATCCTCTCTTTATGTCTCTCAGGAGAAC
TCTAATAATGCATTAATCAAATATTACAAAAATCTTACGATGAAAAGCAACAGTATCCCT
CTACTTTGTTCTCTAACTCACATCTATTCCCCCAAACAACCTCTTAACCATTCTGTTTTA
ATAACTCTGAATAAT

Sequence 4635

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGNATTTTGTAGTAGA
GACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCTTGATCCGCCCA
CCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCATTCCGGCCTAACGAAG

Table 1

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ACTTATTTTACCTCAACTANNATGGGGGTTCAATTCAATTTTGCTTACCTCANCCCGTG
TCAAGGGAATTAAANTTTGGGGCCCCCTTGGGGAAATTTNCC

Sequence 4636

CCGGGCNGGTACAAACCCTACTTTTTCTAGGGCTGTCATAACAAAATTACCATGAATGAG
GAGACTTAAACTACAGAAATTTATTATCTCACATTTCTAGAGGCTAAAAGACTGAAATT
CAGGCATTAGAAAGGCCACACTTTCTCTCAAGTTTCAAAGGAGAATTTTTCTGTTGGGC
TGTTCCAGCTTTTGGTGGCTCCTGCATGTTTTGGTTTTAGTGGCACATCTCCAATGTCTG
CTGCCATTTTCATATGACCTTCTGCTTGTGCGTCTTCCCTTGCCCTTCTCTTGAGGACA
CCAGTCATGGATTTGGGGACCCACCCTCATCCAGTATGACCTCATTTTTAAGTAATTTAC
TTTATTTTCCAAAATTAAGGATTACATTCTGAGGGTTCCAGGGTGAATNGTGGAATTTTT
GGGGGGGTAAAAA

Sequence 4637

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGACTTATGCTTATAG
GGAGGCCTCAGGAACTTACAATCATGGCAGAAGGTGAAAAGGAGGCAAGCACACATTCA
CATGGCTGAAAAGAGTCAGGGGAGGTGCTACACACTTTTTAAACAAGCAGATCTCAGGAG
AACTTTATCATCAGACAGCACGAGGGTGGTTGAGGCTAAACCATTANAAACCACCTCTAT
GATCCAGTCACCTTCCAGCAAGCCCCCTCTNCAACACTTGACAATTACAATTCATATGA
GATTGGGGGTGGGGGGGGTGCCACAAATNCAAACCATGTCAAAGAAGCATTTTTTAAAT
TTGAGGGGGAAGTTTCTAATTCAGAATAGCAAATTTGAGGGACCAGGGGGCCATTTTTAT
TTAAGTCATTNAACCACCTTNCTTTTTTCAATTAACCATTGGCCCAAAAATTTGGGGGA
AAAAANAGGN

Sequence 4638

TACTATAGGGCGAATTGGAGNTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTTTCCC
TTTATTTCTCAGACTGGCCGACACTTAGGGAAAATAGAAAGAACCTATGTTGAAATATTG
GGGGCGGGTTCCCCCGATACTTTTGGACATATATCCAGTAGTGGGACTGCTGGATCATAT
AGAAGTTCTATTTTGTAGTTTTCTNACAAACCTTCCATNACCTGGTTTNCNTTAATGGCTT
AACNTAATTTTANTTTNCNANCNACCAGGNNTTATNTTAAGNTNCCNTTTNCTTTTGCGT
TNTTTTGNCCGGGCATTTTNGGATAATTTTNTTTGGGCCTTTTTTTNGAATAAATNAGNC
CCANNTCNTAAACCTTGAANGGTGGTTTCANTGGGGAAGNAAAANCTTCNAANCCTTGGG
GGGNCCCCAANAAAAAATTTNCTTGGCNCCCCCGGGGAAA

Sequence 4639

TATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTT
TTTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAG
TGGTGTGATCTCAGCTCACTGCAAGCTCCACCTCCTGGGTTACGCCATTCTCCCGCCTC
AGCTTCCCAAAGTAGCTGGGACTACAGGCACCTGCCGCCACACCCGGCTAATTTTGTTTT
TGTATTTTGTAGTAGAGACAGGGTTTCACTGTGTTAGCCAGGATGGTCTCGATCTCCCGAC
CTCGTGATCCGCCCCGCTCAGCCTCCCAAAGTGCTGGGATTACAAGTATGAGCCACTGAG
CCCGGCCTCTNTGTAGCTTTTAAGATGTTCTTAGGTGACTTATGAGAATGAAAAAATGGA
GAATTTTCCGTCTTCTGCCATGAAATCAATTAATGGC

Sequence 4640

ACTCCTTAGGGCGAATTGGATCTCCCCGCGGTGGCGGCCGAGGTACCATAATTAGTTTAG
AATTCAGTCTTTTAAATTATTTGCACCTTGAGACTCTGTGAAATGAAAACATTTAACAGT
AAACTCTTGTCCCAAGGGAGCAAAGTGAGAGTAAATGCTGGTCCATAGTGTGGGGAAAAA
GGACTGTGTTACCATGAGTTTTTTCAGGATGCAGCATAAAGCTTATCTAAATACTACACA
GATCATTTATCTTTTAACCCAACCAATCATATATTCAAACCTAAGGGAAAAATATGTAAGCT
TTTCCTTTGGAACCTGAGACACCAGGAGCCTTAAACCACAAATAATCTACTGTAGCTATG
GACAGGGTAGTCAAATTTATTTCAAACAAAAGCTTTGTTGGGCTGCATCAAATGCAGGA
GAAAAGGAATACTTAGGGGCATGGTTAAATTACCAGTGTGCCGTAACAGTGAGGTATGCC
TCAAATAAGCCTTTAAAAACTTTATAAACTGGACTAGAAGTTCCCATGCNGTAATATTTT
TTCAGGGCTTCTAATGGAAAAA

Sequence 4641

GGGCGAATTGGTTTCCACCGCGGTGGCGGCCGAGGTACTTCGTTNTTTTTNTTTTTTTTT
TNAGGCTTCTTCAAATATGAAAAGGAAGGAGATAAAGGGCCAAGAACCTCCAGATGGAG
ACCGGAGCTGTTTGTAGTTTTTACCTTGAAGGCGCCACCACCCATGTGCCTCTGGTATTCA
CAGCAGCACTTGCTATCTCTCACTATGGTGGATTCTGACCTTTAGGCAGCTCAGGGTTTC
ATTGCCCTAGCGGGAAACAGATTGAGAGCTTTCTAGCCTGGGATATGTTGCACACCTTAG
ACATTAATGACTTTAGGTAGGTGCTTTTTTTCACAGCCAGTGCTGTCTGTGAAAGTTATAA

Table 1

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CCT

Sequence 4642

CCGCGGTGGCGGCCCGCCGGGCAGGTACTCTGGGAGGCTGANGCAGGTGGATCACCTTAC
GTCANGCATTCAAGACTAACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAATAC
AAAAATTAGCTGGGCAGGGTGGTGCATGCTTGTACAGCATCGTAGGGTNCCCCTAACCT
GGCCCTNGNTTTTTGGGGTTTTTAAATGGTTATCCCCNTTACTTGAGCCGGCCTCTACTA
GGTGGCTGTGATTAAAATGTCCCAAGCAAGGGATAGGNGAAANGGGAATGGGNTAGAGCC
TCTGGAGATCATTGTAACCAATCCTGCCAGACCTTGTTNNGGGGCAANTGGGGGAAGCCAA
ACCTAGATAAGGACCTTNTTTGGGGCCATCAAGGGGAAGCCAAAAAATTTTTCT

Sequence 4643

CCGCGGTGGCGGCCGAGGTACCAAATACAATCTGTAAATAATGGCCATTTCTTCCCAAGC
CCACAGCCAAGATGAGTGTAGGCTAAATTCAGAGCCCTGGCTCTTCCTCAGATGAGTGG
AAAACCTGCGCATGACAGGGCCGGCTCCCCCTTCTCAAAGGGCTTCCTTCCACTCATTCC
ATCCCTTACNAGAATNTGCCGNNGGGNGTTACCGGGCCAGAAGAAAGCACAAAACATGG
GATTCAAGAAGTCCAAAGAAATGCAGTTCGGTTGCGCCCAATCAGAGATAGATGATTTCA
TTCAACAAGGCTGGAAGCCANTTGGGAAGTCGATAAAAAATCTTTGCTAACTTTTTTTA
AATGGCTTTTTTACTTTTTCTAAGTCACCTGGAAACCAAAGGGAANGGGCCACCANTGGC
CCATTTTAAAA

Sequence 4644

CCGCGGTGGCGGCCCGAGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTCTGCGG
CTCACCTTGCTGCAGTTGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGGTGGTTA
CCAGGAGCTCTGCCACTGCATGTCCACTAGTGACGGGTTCGCTCCACCACCCAGCTGGG
TAGCCGCTGCTCTCACATAAGGGGTCCAATTAAATTTGCCAGGAATAAATTTCCCCCGGAC
TTTGACTTCTCAAGAGCTAAGAAGGTTTGCTGAGTATTCTGGCATGATGTTTGGTGATCA
AACAAGTCTGGCCAAAAATGATGAAGTATTTCCCCCTCTTGCTGAAGATGTGCTCCATA
CAATAGTCCATCACATTCATCATTCATCAAGTCTGGAAGTGTGCCACCCAATCATATTAT
CTATCACATGTTTGGTCTGGCTTTTTTTT

Sequence 4645

CACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACTGC
AACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCCTCAGCCTCTTGAGTAGCTGGGATT
ACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTGTAGTAGAGATGGGGTTTCAC
CATGTTGGCCAGGCTGATCTCAAACCTTCNTGACCTTATTGTGGGTCCACCCACCTTGGCC
TCCCAAAGTCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCCAATTTTTT
AAAACTGACACCTATTACTGATAAAATCTCTGTTTTTAAATCCTATTTACTATTTTAA
AGATAAGTANTTAGTTTTTTTTTTTTTAAATACCAATAATTTCTGGTTATTTGATNAAAAT
TTTAAAGGGCATTTTTT

Sequence 4646

CCGGGCAGGTACGCGGGAAAGTGCTTAATTAGTGTCCATAGCTAAGGAAAGAGAGAAGAA
GCCAGCAAGTGCATGCAGGGAATGCCAATCTATGGTCCGTAGCTGAAGCAGCTGGACAAC
AGGTGACAAGAAATAGTGAGGGAAGCCAGATGAAGTGACTGAGTTGTTTATTAATGATCT
CCATTTGTCTTTTGGGAAGATACAGGGTCATATTTCTTATCTACTCAAATAAAATGTTAT
TTAACACCAGAAGCAATAGTATCTGTGGTGGGCAGAACAAATACCCCACTAAAGATGTCTA
CGTCCTGGGCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGT
GGGCAGATCACGAGGTCAGGAGTTCGAGACCACCTGATCAACATGGTGANGGCCCGTCT
NTACTTAAATACCAAAAATTTACCTAGCCTTGTTGGCCTTCCTTTTGTATTCCAACCTCT
CGGAAGCTTGAGGCAGGAAATTACNTTGANCCCGGGAGGCAAACCTTGCAATGAANCCCA
NATTGTGNCCCTTGACTTCCNNCCTGGGCCAAGGGAAAAAAA

Sequence 4647

TCCACCCGCGGTGGCGGCCCGGGCATTTCTTCCAGGGATCTCTGTGCTTCCTTTTGTGCT
TNNTNTGTGTGTGNGATATTTAAAGGGGCTGGGAAATGTNCAAAAACATGTCACTACT
TAAGAACATTATAATNNGGCATCTNGNTGGTTCTAAGTGNATGGTTAANTTAATCTTCCAA
TTTTTCAGCCAAATGGTGTGGNCCTNAAAATNGGTAAAAGTNNAGCAACCCTTCTTAATTT
TTCAACCTTNTGTATTAATCAAGGNCCCTCCACCATGNCAAAATCTTNCCTNNGCTTCCC
TCGGCTGGCAGNCCACAAAAATCTNCCCTCTGTTTTTCTGATGCCAGCTTCTNNGGCACT
TGCTATCCCCGCGTACCTNNGGNCCGCTCTAGAAGTGTGGGATCCCCCGGGCTTGCANG
AAATTCGAATNTCAACTTAATCCGATACCGTCGACCTCGANGGGGGGGG

Sequence 4648

Table 1

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GGCNGNCGCCCGGGCNGGTACCCNCGAATCTAAAATAAAAGCAGAAATTATATGAAAAAA
CTGGGGTGGGAGTTGGAAGGAACNTATATATGTAATAAATTTGTGGTGAAAACGTGTTAA
TNACTNANGCTTTCATTAA

Sequence 4649

CCGCGGNGGCGGCGCCCGGGCAGGTACAAAGCATAACAAAATTTTCAATCTTCACCATT
TTAAAATGCAATTCAGTAATGTTTCAATATATTCACATTCCTTGGGAAAGAGATCTGCAGAA
CTTTTTATCTTACAAAACCTGGAGGTCTATGCATATTAAAGAACTCTTTTTCCCTCTCCCT
GCATCCTTTGGTAACCACCACCTCTACTTCCATTTCTGTGAATTTGACTACTTTAGATAC
TCCATATAAGTGGTATCATAACAGTATTTGTCTTTTTGTGACTGGCTTAATTACCTTAGCA
TAATGTTCTCAAGATTGTAGAATTTAAGGGATTTTCTTCCCTTTTCAAGACTGAATAATAT
TTCCNTCATATTTGTATATCACATTTTGTCTTATCTGTTTCATGGTTTGATNGAACCATTT
TGGGGTTAC

Sequence 4650

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCCCGGGCAGGTACTTCAGTTCCTATT
GCCATGAAAATTGTATCCAGCAGCTAAAAAAAAAAAAAAAAANGACTACAGTTAGTC
ATTATCCAATTTGATGATTTATGGTCCAACACTAATGCTCATTTTTTTGTTTGTTTTACA
AACATTTGGTGGATACCACAATGAAAACCTGCACTTAAAAACAAAAATGCTGAAAGAGGA
AGGAAATATCAAAAAGGTCTGAATAGACAACAGGCAAATATGCTTCCACCTACCGAAAGA
GTTTTAGGTTGGCAGACAGATGGGTGCCTTATTTTCTGTGAACTGAAGTTTAAACACT
GGCCAGNAAAATGTTTGATTGCCATTTCAACACATGGAAATAGTTTACCATTGGATGNCC
TAAATTTACCATTTTTCT

Sequence 4651

GGGGGCGGCCGAGGTNCNCGGGGANAGCACATCCGGTGTNAGAAGCNNTGGTAGGCCTNG
AAAAGNCGGGTNAGGAAAAGNGGAAACTGNTNCACGGACTTTGNAACCATNAACATATTT
GATCNAAAATCANCTTTNNTCCCTTTAAAAATTTTCTTCAATATAACCCCCGTNACCC
CAGCAGCACNCTGAAAGAAAGGGTCTAATCCAAGGTTTTGCCCTTTTGTATTGTTTTGG
NGGGCGGGCTTGCAAGGGGGCCCTTATGGTCCCATAATGGGNCCACTTCATTTTCATTTTC
AAGGCCTGGGCCCTGGCTTGCTTGCCCTTTGGGGGCTTCCCTTGATAATTTGAATTGAA
TTTTGGCCTTGATGGGCAAACACCCTCAATAAGCCCATTTGAAAACCTTGGAACAGAA
AAAAAGAACTTGGGGGACTTTCCTTTGCNTGGGAATTTTGCAATTTCCCTTACCAAGGGA
AGTTTGGGCCCTTGGGGCCCTTGCCCC

Sequence 4652

AGGTACTTCGAAGTTTATCCAGAAGCAAATTTAACTGTGTCTTAACTTGTTTCCCACGC
TGATGAAGCTAAGTTTTCTTGCTTTTTTGTTTAGTATCTTTGTTGTTATTTGTGGATGATT
CAAATAATTCCCGTATAAACTTATCTCTGGATTACATATTAAGGATTCAAGAGACATAT
GTAAAGCATCATTATTTTTCTCCACAACTGGGTCTGAAAAATAAATCAAACAGGAATGT
TTCTGTCCATCTTGATGATAACATCACTTAACATGGCTCTGTCCAAAGGAACCTTCTGTGA
TGACAGAAATGTTCTGTATCTGCACTGTCCAACGCAGTCACCACTAGTCAGTGTGGACAC
TGGGCACCTGAAGTCCCCGCGTACCTGCCCC

Sequence 4653

CCGGGCAGGTACAAAATGGTCCTCTGAGAATATTGTTCCCTCTTTGNCATTTGCAAAGAGA
TGCATTCTANCTGGATGTTTTTCATTTATACTCCCAAATTCTAANACTCT

Sequence 4654

TGGAGCTTACTTANGATTTTCTAGTGCAGTAGTTCTAAAATATGGTCCCTGGATCAGTAG
TGTNAGCATCCCCTGGGATTTTGTGTTTTAACANGTTCTCTATATGATTCTGATGCACAC
TAAAGCTTCAGAATCACTGCTGTAGNATAAACTGTGATGGTTCTCANCCTTCCCCACTGC
TGGCTTAGGTGTTNGCTTTC

Sequence 4655

AGGTACTTTTCTTTTTTCTTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT
GTTGCCAGGCTACAGTTGCAGTAGGCATGATCTCAGCTCACTGCAACTGATTCAAGCGA
TTCTCCTGTCTCAAGCCTCCTGAGTGGCTGGGATTAACAGGCACCCGCTCACNCATGCCC
AGACTAAATTTTNTTGTATTTTGTAGTTGAAAAANCGAGGGTNTTACCATTGTATGGGT
GCAGATCCTTGGAGGCCTCNGAAGCTTCCNNGTACACTANGGGGGGFGGANTTCCCAACC
CCAATCNTACGAGTCCCTTCTCCAAAAAAGATNGCNTTGGGGGGNACTNTAACCAANGGA
ATGGTTNGGAAGGCCNCAACCCCNAGGAGNAACCTCCTTNGGNCNCCNCCAANTAAAACCN
TTCTGTTTAAAGTAAAAAGGTTTAGGNAAAANTTCNCTTCCATGTGGGGGTTNTTGAAAA
AAAAGAAANAATTTATTTTTTT

Table 1

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Sequence 4656

AAATCCGGCGAATTGTTTTCTGGNNANNGGCCGGCGGCCGAGGTACTGATGCTTATTTTT
TTTNTTTTTTNGANACAGGGATTTTCTNNGTCACCCAGGCCAGAGTGCAGGGGCGTGATCG
TGGCTCACTGCAGCCTCAGCATCCCAGGTTCAACTGATCCCTCTGGCCTCAGCCTCCTAA
GCAGCTGGGACTAGAGGTGTGTGCCACCATGCCCAGCTAATTTTTATATTATTTATAGNG
GCGGGGTTTTGCCATGTTGCCCAGGCTGGTCTCGAACTCCTGAACTCAAGCAATCCACCC
GCTGCCTCAGCCTCCCAAAGTGCCAGGATTACAGGTGTGAGCCACTGTGCCCAGCCCCTG
ATGCTAATTTTTTAAATGGACATTTGAATTCTCAAAGAAATTTGTGTTGCCTCTTGTCAAA
CCAGGTCACTGAAATGATAACCCACACAATAAGGCCCAAT

Sequence 4657

AGGTACATTTTCTTTTTCTTTTTCTTTTTTTTTTTTTGTTTGAGATGGGGCCTTGCCCT
ATCACCCAGGCTGGAGTGCAGTGGCACAGTCACCACTCACTGCANCCTCAGCCTCCTGGG
CTCGATCGATCCTCCCACTNCAGCCTNTCTAGTGGGCTTGGGACTANCANGGCANNAACG
CCTACNACNNCCNNAGGNTTAAANTTAGTTNNGGAATTTTTTNNNGGATAATANAAGGGG
GGGGTTATTTNAACCCCAATGGTTTGGCCCCCAAGGGGNNNTGGGGTTNTTANANNATAC
CTTTNACTTGGGGGGCNTTCAAAGNNGCACAATTNNCNTTNTCCTTGGCCCCNTNAACCT
CNTTTNNCCCCAAAATAGANTNGCCTTGGGGGGGAANCCNTGGTCCAAGTGNCNANTTGN
AAAGTCNCCAACATTTGGTCAATCNNCATTAAAGGGCCCCNCTTGGGAGAAAACCCCNENC
AATTTTTTTTTTNNTTTTTTCNCCCCCTTCTTTCCAATTCCANTTGGCCTTTGGCCCCCTT
TANATTGGGGCCAAACNTTTTTTTTTTTCNCNTTCCCCCAACCAACTCCNTCANANANCT
TTAAANNTTTATACAAGGGTTTTTAATTGTTTAAGTAANNAAAAAAATT

Sequence 4658

CCGCGGCGGCCGGCCNGCCCGGGCAGGTACTATANCCTTTNTTTNTTAANTNANGTTTTT
TTGACAATTCCTTGAATCTGTTATTNATTCCCCCTTNCACANNAACAGGCCTTGGGACTTN
CCAACAACCCTGCTAAAG

Sequence 4659

CGGCCGCCCCGGGCAGGTANTAAGGGTGACATATTTNAGGCGAAANGGNTTTNANAAACNT
AGCCTGGTGACATGAATGAGCTGATTGTGGAACCTCTCAGCAGCATTTACAGTATTGNTAA
CATGTATGGCATTATATTAGCATATNGNATATTATATAAGATTGAGGGATGTCATATTTNC
AGCTTTCTTNTAAANAAAAATNGAGGATATTCTCCTATTTNATATCAGGTAATAAANA
TGCTAAGNTATGTGGAAAAAATTGCAAAGATGCTTNGACAGATATAATCCCTTTGGTGCT
CCATCTGATCAAAGTTGAAAAGTTTGATGTTTTTTAAGAGACAA

Sequence 4660

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAACAATGCAGACCATGTGTAT
GACCACCCATCCTGAACCAAGATTCCTGGGCAAGGCTCTTAATNNATCTGTACTGAACA
AAAGCAAACTGCTCCACACATGGGCCACATAATATAGCCACTTGTATTATTAAATTTTT
GACCTATGTGATAAATCCTTGATGCTCANTTGTCTAAAAATGTCTTTGTAAGCATNTGAA
TATACCTAATACTGAAATAAGAGTTTAAAAAGCTTGACAACACAATCCAANGTTTTACAT
TTATTTACTCATAATTAACCTCAATAAACATACTAGATTATACATTTAATATATGTTAAAA
TGGCTGAACAAAAATATTTANCGTAATTTTTCTTTTTTTTTTT

Sequence 4661

GGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGATCTTGGCTCACTGCAACCTCTC
CCTCCCCGGGTTCAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGC
GTGCCACTGCGTCCGGCTAATTTTTGTATTTTTTAGTAGAGATGGGGTTTCACCATGTTGG
CCAGGCTGATCTCAAACCTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGTGC
TGGGATTACAGGCGTGAGCCACCGCNCTCAGCCTACAAGCAATTTTTTAAAAAACTGACA
CCCTATTACTGGATAAAAAATTCTCTGGGTAAAAAATTNCTANTTTACTTANTTTTAAAAG
AATAAAGTNATTAAGGTTTTTTTTTTTTTAAAAATACCAATTAAATTTCTGGTTNANTTGG
ATAAAAAATTTTAAANGGNCA

Sequence 4662

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGACCTA
AGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTATTGGTAAATAGCCACTATGGAG
ACTAAGGACCAGAAGAAACACAGAAAGAAAAACGGTGGACCCAAAGCTGCAAAGAAAAAG
AAGTGGCATCTGCAGGATCTCCAGCTAGGAGACTAAGAAAATGCCCAGAAGAGAAATGCC
AATGCTTTTGCAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGAT
TTGAAGACACAAAAGCATCATATTCCAGTGGTTGATGGAACCTCACTAGAGCCCGCCACC
AATACCCGGTAGTGGTGACGGGGCCTTCCAAAGTTTGGAAGGAGCACTTTTGATTATAA

Table 1

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TGCCTTCATTCTGGGAACCTTTCACCTNGGCCAGAAA

Sequence 4663

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGG
ACATTGGAGTGGGGTGGGAAGCCTGAGTCCTGTATTACATGAACGAATTCAGGACACCC
ACCATACTCAGCTCCTTTCTGAAAGTGCTCCTCCCTTAGGCCTCTAGAAACGCCATGGA
CTTTAGGAAGGGCCAAGTGACACCTTCCATGATGTTTGGTTCCTGGTCCAGATGGATCTGG
AAGACAAAGATTTGGGGAGAGTGACCACATGGCTGGTAGCAATAACAAGGCCTCTGGCTC
TGAATTGCTTCCTATGGTCCCGGTAGAACTGCATAGTTCAGAGCCAAGGGGAGATGAGA
AGCCTTAACGTGGAAGAGGGACAAGAGAGATGAATTGCTCCCTCTGCAACCCAACCTTTC
AAAGTAAGAAATGGTTGGAGAGCCAATATTCACCAATTTTC

Sequence 4664

CGCGGTGGCGGCNCGAGGTACAGTGGTTGTGATCTNAGCTCACTGCAAGCTCCGCCTCCT
GGGTTACAGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATCTGCCA
CCACTGCCTAGGCCAATTTTTTTTGTATTTCTTAGTTAGTAAGACCGNGGAGTTTCACCT
GGTAATTTAAGCCCANGGATTGGGTTCCTCAGATTCCTTCTAGAACACTTCNATNNGACTC
TCACCCCTNGCGCTTGGGCCNCTTCACACAAAAGATGGCNTGGGGGGNATTTANCAAGN
GGCNAATGNAANGCCACNTGGNCGCCCCCAANCNACGGAANATCNAATTTTTTTTTTTAA
ATTAACCTTAANCTTGCCATTGGTGGAANNTTTTAANCCAACCAAATTTCAATTTACCCC
CAAAANATTTTGNAAGGTTTTTNTTAAGGTAATNGGGGGGCC

Sequence 4665

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTACACTTTAAATATTCAAGTTTATTGTA
TGTCATTTATACTTCAATAAAGCTTTTTTTTTTTTTTAAACCTCACAATTTAGTTCTGGG
CTCTGTGCTTGGGCTCTTGAAANTCGGTGGCAGNGGCCTGAATCCCCATGCCCNCTGNGA
CAGANCAGGAGCACCATNCTNTNGGACAAACACCGCCACTTTAAGTGCCAGCTCCCTTTC
CAGCCTCANGCATTTCAANAAAATCNCTTNTCTTTTAACANCCAAGCAGACCAGAANGAG
CAGNACNGTGAANAACATAAGNATGAGACCAGGCTCNAGGCCNNCAAAGGGGAGGGTGG
GGGGGGGAAAAGTNCTNNTTGGGGTAATTG

Sequence 4666

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCCCAGCTGATTCAG
TATCTCCTTCTCTTTGAAAACCTCTCACAGAACTGCCCTATAACTTCTACTGACATCTCA
TCTCAATGGCTAGATCAGTGCTATATAACAAAACCTTTCTGCAGTGATAGAAATGTACTAT
ATCTGAACTATCCAAGATGTTAGCTACTAGCCACTTATGACTGTTTAGCATTTAAATGT
CACTTGTGGAACCTGACAAAATCAACTTTTAATTTTACTTGATTTTAATAAATTTAAATTT
AAATAGATACATGTGTCTAGTGGCTACCCACAATAAATAAGTGCAGGGGCTAGGACCTTA
ATCACATCACTTACCCCCATTCTTCAAAGGAAAAGC

Sequence 4667

CCGGGCAGGTACCGTCACTGCTGCTCCGCTAGGCTTGGTGGTGTGAGGATTTTCTTCTGT
TCCTATCGTGGACTCTCTCTCCCTTTCTCTCTTTTTTTTTTATTATTTTCTCCATTTTAC
TCTGACATTATTGAGTGTCTCCCTCTAGTTCTCATCTTTCTCTGCCTTCACTGTGGGCAA
TGACTCTTTTCCCTCCTACTTGTGACTTTTTTCATCTCCAGCTTTTCTGCCTTCCTGCCT
GAGTTCACTTTATTTTAAATAGAGTTTCTCCCC

Sequence 4668

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCTGTCCCCT
CTCTGACTAGAAAACAGTTTCCCTAGATACCTGCATAGTTAGCCCCCTGAACTTATTTCA
ATTCTCTGCTCAAATGTCATGTAAATGGTGACATCTTCCCTGACCATCTTATATAAAATA
ATACTTCCCTTTCCCTGATATTCTCTATCCACCTTATCCTGTTTGATTTTTCTGCACTG
CCCCATCAACCATTGACATATAACATGTCTACTTGTATATATGTATTGTGTTTCACCA
GCATTGAAATGTGACTTTCACGAGGGTAGGGGATTTTTGTCTGTTTTATTAACTGTA
TCCCCAAGAATGCCTTGCATAAATTGGGACTAACAAATATTTATTGAATTTGAATAAATG
AATACATTTGGGAAGGCGCAAAGGAGTCCCTTGCCCCCTGAAAATT

Sequence 4669

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTTTAGCTCTGCCTGGTTTATCG
CCTTGTCGCCCGCAGCCCCCTGGCAGCCTCTCATCTACCTCTGCTTCTGTGGGTTTGCCGA
TTCCGGGCATTTTATGTAAATGGAATCGTATGATATGTGGTCTTTTGTGATCGTNCTTTT
ACACTTAGCATGATGTTTTTCATGTATATTACGGTCGGGTGTNGGTGGCTNACACCTGTA
ATCCCAGCCGCTTTGGGAGGCTGANGTGGGCANATNACTTTGAGCCTCAGGACTTNGANA
AACAGCCTGGGCAACGTGGCAAGGACCCCTTGTCTCAATTCTTTTTTAATTGTNAAAAAA

Table 1

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ACATTTNGCCNAANCTGGNCTTGANCTCCNNGGGCTCAANCAATCCTNANACCTCANCCTC
CCAAAGNGCTNAAATAAACAGGTNGTGNGCCGGGCACACCCAGCCCANACTNTTCANACAT
GTAAATATTNGNCNCTTTTGNGGAATAAAGGCTGAATAT

Sequence 4677

ATACGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTGAGGAAAACCCGGTAATGATGTCGGGGTTGAGGGATAGGAGGANAATGGGGGA
TAGGTGTATGAACATGAGGGTGT

Sequence 4678

CCGCGGTGGCGGCCGAGGTACAATNGTGNGAACTGAATAATTAAACTTTGGCTNCTCT
TAGGAAAAGACNACTTNCTAGTCATAGGNGTCCATGCGGAAATTTATTTTTTTTAAATGT
CCTGNTCCTTAATGCTGCAAATNATCAGTNTTNATAAAGTAACTGATTTTGCACCACTTT
TTTGTAAGTGTGACCACGGNNTAAACAATGTATTCTANACTATATCTATGTAAAGTCCAT
TAGAATGGTATCTGTTCATTTTAGTGATAATGAAGATCACAACTAACACNCGACAAATA
CAGAAGTTTTGCCAGCTTCAAATTGCANCATNNGCCTGCTAGCTGTATTAATGAAATTGA
TATGATTANATNCTTATGCTAGCCTCTCTTACTAATGGGAATTATAATAC

Sequence 4679

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGCTA
GCCTGGCACCTGGACTCTGCCCATCCACAGCTGACAGATTCCAACAGAAGTGTATTTAA
TTCTCCAGTAGACAATGCTGGGTAAGGGAGGGGGTAGGGCTGG

Sequence 4680

GCATCTTCAAGAGATGGACAAGTGGACAGGAGCCAACAGTTGGAAGTCAGATTCAGAGAG
TAGTGAGCATGGCTGCCTTGGCCATGGTGTGTGAGGCCATAGACCAGAAGCCTGAGCTGC
AGCTGGACTCTCTTCATNCTTGGGCCCTGGGAAAGCTTCCTTTCTCTCTTCAGCTCAA
TCAGACGCTGCANAAGCCCCACNCANAGGAGCAGAGCAGTTATGCTCACCCCTTGGAGTG
CAGCAGTGTTTTGGAAGAATCGTCATCTTCCCAAGGATGGGGAAAAATAGTTGCACAATA
TATTCATGATCAATGGGTGTGCCTCTCTTTCTTGTGAAAAATATCACACCCTTATNCC
AACCACAGGGAGTGAAATTCTGGAACCG

Sequence 4681

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCTTCCCTGCTGTTCATGAGCTNTA
GAAAGCTGTANAACATATTGCTTACATTTTCACCAACATCTAGGTGTTCTTATTTCTTGN
GCTCTAAAGCTT

Sequence 4682

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGTTACAAGTGCTTGTATAG
ACAAATGTATTAATTTCACTTGTATAAATACCTAAGAGTGGAATGGTGAATCAGAAGGT
AGGTATATGTTAATGTTTTTAGAACTGCCAGCTATTTTCCAAGTTAGTTGTATAATTT
TTCATTCTACTAACCANTGTATGAAAAGCACCTGTTGCTCCACCTCCTTGTCCACACTT
GGTATGATCAGTTTTTAATTTTAGCTATTCTAACAGTTGTGCAGTGGCATCTCATTTGTGG
TTTTAACTTATATTTCCCTAATGACTAATGATATTGGGCACCTTTTTAATGTGCTTATTG
TCTACTTCTGAGTAAATACAAAAGTGTTTTGCTAAAAACTATTGTGGGGGGCTGTATTGG
GATGATC

Sequence 4683

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTT
TTTTTTCAAATAGGTTAGTTAGGAACAACCTTACTCANAAGACGTATTTGAGCAAAGACA
TGAAAGAGGTGAATAAAGCATGTGGATATCTAGAGACAGAGCATTCAGACAGAAGGAAC
AGCAACTGGTAATTAGCAGGGGCAAGAGTGTGCCTGCCACTGGTCAGGGCAGAGAGTGTG
AGGAAACAAAGGTAAAGAAGTAAATTTTTTCCAGCTATCCTGTTTCTAAGTTCCAAAAG
CTATTTCTTCTTTTGAATATTTCAATTTATAGGACTTATTCTCATCTTTTGATGAAATAC
CTTCCCTCATGTCTCCCAGGGACTGGNATCTTTTTNAAAGTTTTCTTTCAGTTCCCTGCA
CTGTTTCTG

Sequence 4684

CACTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCGGGCAGGTACTTCAAA
ATTCTCACTTTCCAGTGGTTCAAAAGCACCATCAGATGACTGGCTCCCCCAGGATT
CAAAGAAGGCTGCATCGATGCTCCTTCTACTCTTGCCACACAGGCGACCCGATCCAAGAA
AGTCACTGCCACAANGGCACCGGCCACAAAAGAAGCCTTTACAAAAGGCCTTGATGTATC
TTTTCACCCACCCTTGTGACTGTGCCATACCCTTTCTCCCGCTCTTCCTCGGTGAGAAGG
GGTAAAGTGGTTATTTTGTGCCCTCGCCCAATTTGGCCAAAACCCCGCTGCGCAGCTNAG
CCCGGGGGGGAAAGTNCCCGCGCAGGACCCCCCCCCCGGCGTACCTTCGGCCCGCTCTTAG

Table 1

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AAACTAGTTGGGAATCCCCCGGGGCTGG

Sequence 4685

CCGCGGTGGCGGCCCGGGCAGGTACCGTCCATGGCCTGTTAGGCTGCACAACAGGTG
GTGAGCAGCGGGCCAGCAGGCATTACCACCTGAACTCCATCCACCTCCTGTCAGACCAGC
AGTGGCATTAGATTCTCATAGAGCACAAACCTATTGTGAACTGCGCCATGNCAAGGGAT
CTAGGTTTGTATGCTGCTTATGAAAATACAATGCCTGATTATNTGAGGTGGAACAGTTTC
ATCCCAAAGCCATCCTCCAGCCCNACCCCAGTCCATGAAAACACTGNCTTCCACAAAGC
TGGTCCCTGGAGCCAAAAGGTTGGGGACTANCTGTACTNCTATAAATCTAGNTGGAAAC
ATTTTC

Sequence 4686

TCATGAGATTTAAGGAAAAAAGCAATCTCCATAACATAAAAGTGCAAGAAGCGGCAGCA
AATGCTGATGGANAACTGCAACAAGTTGTCCACAAGGNGTANCTNAAAATCNTTAAAGG
NTGACTACAATAAACACAGATTTTCAATACAGGGGAAACAGCCTTNTATTGGAAGATTC
CACCTAGGGCTTTCATAGTTAGACAGAAGTTGATGCCTGGCTTCAAAGCTTCAAAGGACA
ATCTT

Sequence 4687

AGGTACGCGGGGTTTCAGCGCCTGCAGGTTCGGGAGGTCAGCTCCCAGCCGAGGACGTC
GGATGTCATCGTCCTTGCTGCTTTGCCACCCCATTCCTCGTCAATAAAGTGGTTTGAACCC
AAAAAAAAAAAAAAAAAAGTACCTGC

Sequence 4688

CCGGGCAGGTCTTGAACCTCCTCACCTCGGGTGATCCACCCATCTCGGCCTCCCAAAGTGC
TGAGATTACAGGCGTGAGCCACCACGCCCCGGCCAGAGATCCACATCTATATTTATAACAC
ATTTATGGATGAAAATTAAACAGGTGTCCGGGTGCGGTTACTCATGCCTGTAATCCGAGC
ACTTGTGGAGGCCGAGGCAGGCGGATTACTTGAGGTCAGGACTTCGAGGCCAGCCTGGCC
AACATGGTGAAATCCCATCTCTGCTAGAAATACAGAATTGGCCCCGGGTGTGGGTGTCAG
CACCTGTAGTCCCAGTTACTTGAACCTGGGAGGCAGAGGTTCAGTGTAGCCGAGATTGCA
ACACTGCCACTCCAGCCTGGGTGACAGAGCAAGAGACCCTGTCCCAAANNAANNNNA
ANNNNNAAAGTACCTCGGCCGCCCCGGGCAGGTACGCGGGGGAATTCTGCGGCAAGCGCTT
TGAGAAGCCAGACAGTGTGTCAGCCCACCGTAGCAAAAGTCACCCAGCCCTTGCTTCTAA
GCCCCCTCAAGAGTCACCCAGTGGGTCCCCTAGAGCCCTGTCCCCANCATCTTTTGCCCCC
TGGGCCT

Sequence 4689

AGGTACTTTTTTTTTTTTTTTTTTTGAGACAGTCTTGCTCTGTCACCCAGGCTGCAGTGC
AGTTGTGTGATCTTGGCTCATTGNAACCTCCACCTCCAGGGTTCAAGCGATTCTCCCACC
TTAGNCTCCTGACTATCTGGGACTACAGGCACACATCACCACACCCAACATGGAGAACT
CCATCTCTACTTAAAAANAAATAAATAAATAAATAAACAGGCATAGNGGCTCACGTCTG
AATCCCAGCTACTGGGGAGGCTNAGGTGGGAAAATCACTTNGAGCCCAGGAAGGCNGAAG
CTGCACTTGAGCCAAGAATCAACGCCATTNGCCCTCCAGCCTNNGGGNGGACAAAAGCGA
GACTCCNTCTTAAAAAAAAAAAAAGGAAAAGTTATTAGAAAAAAATATGANGGATATTNAN
TACTNAAANCAAAGTNTCAAATGCCTAAAAAAAAGGCC

Sequence 4690

GGCGGCCGCCCCGGGCAGGTACCAGNACATGAAGGAAAGAACTANAACANGGATGTGAATA
ACTTCTAACTGGTCAGCCTTGGACAAAAGGAAATCTGGAAATCTCGACTTGGCCTGAGA
GAAACCTCATCCTGGCCCTTAAAGTGCCAATTAAGGCTGAGTTGAAAAGGAGCTGGGCAT
CATCAAACCTGCAACAACTTAGCTTAGGCACCCACAGTGTGATGATGTGTTTATTTCCA
TGAAGGAGCAGTCTATGGAGAAGTGCAGGAACCTTCAAAGTTGCATGGGCAGAGCTGCTT
CTTATATGACAGAATTGGCAAGCTGCCTGTCACTTCACAGTGGGTACATGAATATGAAG
CAGAGAACTGGCTGTGTGCGTCAGCAGGGGAGCTTAAGACTGCAGATTCTGGGGAATCAG
CACTCACTGTGACACATGTGATCCTCTGTCTCCTCAGACAACCTGAAGGATGGATGAGAAG
GGGGATCTCTGGAGCCTTGACCTTTTGGGCCCCCGAATTTCTAGCTAGAAAACCTCTTTT
CAAGACAAAACCATGCCAAAGTACCT

Sequence 4691

CCGGGCAGGTACTTNGGNAGTT
TTTA
TTTATTTTTTTTAAAAAAAANTTTNGGNTTTTTTAAAAAAAATTTTTTTTTTA
GGGGGAAAAAAAATTTNAAGGNAAAAANANNGGGGGGGGNTTTTTTAAAAATTTT
TTTTTAAAAANNTTAAAAANNANANNGGCCNNNNAAANNTTTNNNAAAAGNNGGGCAA

Table 1

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AAAANNGTTTTTTGGGGGGGNAAAAAAAAAACCCAAAACCCAAAAANATNAAAATNTGA
TTGNNGNGNNGAAGGGGTTCAAAAAANNGGGAATTTTTTNATTNNCCCCCTNGGNNNT
NTGNATTTGAAGAAAAAATTTTNGTGGGGGGGNNTTTTTTATANTANAGNGNNNTAN
NCCAGNGGGGACCNAAAAAAGGGGNNTTNTTTNGGGGGGGGNGNTTNTGGAANNAC
AANANATGGGAAAAAATTTTTTTTTTTTTTNGGGNCNAAAAAANTTTT

Sequence 4692

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTGGAGACAGGTCTTTCAACCAGGCTGCAGTGCAGTGGTGGAGTCANAGCTCACTGC
AGCCTTGATCTACAGGGCTCAAGCAATCCTCCCACCTCAGGCTNTTCAGTAGCCAGGGCT
ACAGGCACCCACCACACCCAGCTAATTTTTTAAAAATTTTAGTAAAAAGGAGGTCA
NACTGGTCTANAATTCCTGAGCTCAAGCGATCCTCCCGCTTTGGGTTCCCAAAGCGCTGG
GATTACAGGCATGAGCCACTGCACCCAGCCCATACATAGGAGTTTTATAACAAGCATTTT
GACAAAATATGTTGATAAGGTTTGGATGTCCCCTCCAAGTCTCATGTTGAAATGTGAACT
CCAGTGTTAAAGGTGAGCCTGGTGGGAGGTGTTTGGATCATGGGGGCANATCCCTCATGG
ATGGCTTANCACCATCCACTTGGG

Sequence 4693

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGGGATAAAAAGTGCAGTTCTTCTGTTTAT
ATTTGGGTCTGGCATCTGTGAGAGTGCCCTGGGGACTCAAGATATAGACTGGCAGAAACA
GCTGCCTGTTACAGGTTAAAAAATTGTGCCTCCCTCACAAGATATGCTGAAGTCCTAACC
CCCAGTTCCTTAGAATGTGACCTTATGTGGAAATAGAGGTTTTGCAGATTTAATCAAGTT
AAGATGAGGTCATTAGGGTGAGCCTAATAAAATGACTGGTGTCTTACACAAAGGAGAAA
TTTGGACATAGACACACAGAGGGAAGATGATATGGAAACACAGAGGGAGAACTCCATG
TGAAGACAGGCAGAGGTTGGACTGATGCAACTGCAAGCAATGGAACATTCAATTGCTGGA
CAGCACCAGAAGCTAGAAGAGCCAAGGACAGATTTTATCCACAGTCTCGGATGGAGCAAG
GCCTTGCTGATACCTTGATTTTCAGACTTTGATCCTCCAGAACTATGAGACGATGAATTC
TGTTGTTTCTAAGCCACACCATTTTGTGGTACCTCGGCCGCTTCTAGAAGTAGTGGATCC

Sequence 4694

TCATTCATGAAAGTAATTTCTCACCTGACCAAATCGATCGCTTAACATTTATTGCATCA
TNGCCCCCTGNNTCTGTANACTACTCTACCNAANNTTTAATTTGTCACTAGNTT

Sequence 4695

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTAGTA
AACAGGGTTTCACTGTGTTAGCCAGGATGGTCTTGATCTCCTGGCCTCGTGATCCGCCCG
CCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGTGCCTGGCCGCTGCTTG
GTTTTAAATGAATCTTGGATACAGGTGGCCANACTAAATGGTCTCTCAACTTGTCTTCAA
GTTTAGGATTTTAATTTTTTGATATTTTCACTTCTCTCTGGAAATTTGTTCAATTCTCAA
TTGTTGGGGGAGTGCGCAGCTGCTTCATTATGAAGTTTACTGGCTGATAATCAAATAAAT
ATAGAAAATATAATTGGGTCATGTAGCTATCGCTAACCAGTTTTAAAAAATATGTACCTC
GGC

Sequence 4696

TTTTTTTTTTTTTTTTTTTTTTTTTNGGNATTTTTTAGTANAGACGGGGTTTCACCATCTTGGC
CAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGCGCT
GGGATTACAGGCATGGGCCACTGCGCCAGCCTCTTACTGTTCAATTCAGTGGGGCTTGG
GGATGGAGCAAACAAAAACAAAACTGCATGTGTTTCAAGGCTGCCACTTTTACCTGGATGC
CTACACTCCCCATGTGACAGATTAGTCCCAAATCCCATTTGGTCCCTCCCCAGTAGTTCA
NCCTCTAGTCCTTCAACTTCATCTCATAANAGCTCTCCTGCTCCTGGTCTTCATTTGCC
AAGGTTCTCATAACCACACAGNGTGCTCCANACATGGCCAGACCAAGCCAGGGCATGAAC
AGGAGGTAATCCACAGGGCAGGGGACCATGCTTCTACAAATGGGCTAGCAGTATTTAAGT
AAATGTTTACTNCGTGCTTGGCACTGTGGGAATGGTNAAGGGATTCCCCGAGNCCAAATT
TTTNACCCCTTTTGGGAAAAAGAAAAACACNCTNTNTNAAAAAGTTAAAANTCCCAATT
TATGGNTTTTTTCCAAGGTAGGATAACCCCTTNCNNAATTGANNCCATTGGNAAAGGGAC
CAGAACCATTNAAAATGGTGGNNAAAACCATTTTCAACAAGGCTTTTACCTTTTAAAAAG
CCNGNTTTTTAAAAA

Sequence 4697

AGGTACAGAGACAGAGGAAGGGGGGCTCCAAAGCCAAGAGAGGGAACCCACCTGCCACA
GATACCAGCTAGGTATATACAGAGGCTGGAGGAGGCAGTGTCTGATTTGCACAGGCTC
AGGGGATTGGTTTGACTAGGCATGTCATTACGTAGCCCGCAGGAAAAGCTGGCTCTCCC
ACCCTAGCCTTTTAATATGCAAATGCAGGGCACCATGATCTTCTACACAGGTGGGGATAC

Table 1

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TTCGGGGTGTCCATGTATCCAGGAATGTGGGGAAAGGGCAAGAAGTCCACAGGAATCGCC
ATGTTTGGGTGGACCCACTTTCTAATGGCTGGCATTGATATCGGGTAACTGGCCTGGC
TTTAAGAGCTGGAGCTTTACAAGAACTTTTCCAGACGTGCTTTAAAAAACAAAACTTC
CTAAGGACCCCTTTTCCTCTCTATCTGCCTAAAATAATTTATCAATAACTCCTACAACAT
TCCCCCTGTGGAGATGCCGCACTAAGTGTGTTAGAGGTTTGGGCGACGATGTCTTCTG
GCTACTTCCTGCTGGAAAGGGGCGTCGAATGGGGAACAGCAGCCTAGGGCTCCTCTGGGG
TTGA

Sequence 4698

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTCTTTTACATTCCCACCAGCAGTGTATGAGAG
TTCCAGATGTTCTTTCTCTTTAGTTCTTGGTATTGTCAGTCTTTTAAATTTAGCCATT
GATTAGATGTGTATTTGTATCTCATTATGATTTTAATTTGTGTTTACTGATGGATGATG
TTGAGTATCTTTTCATGGGCTTATTGACCAAAAATGAGTGAGACTCCATCCCAAAAAAAA
AAAAAAAAAAAAAAAAATAAANGTNCGCGGGGCTCTTCCTGCTCTCCATCATGGCGCAGGAT
CAAGGTGAAAAGGANAACCCCATGCGGGAACCTTNGCATCCNCAAACTCTGTCTCAACATC
TGTGTTGGGGA

Sequence 4699

CCGGGCAGGTACACTTTGAAGACTTTCTCAATGGCATTAAACATAGGCAGCTGTTCTCAGG
TCCAATCCCAGGTTATACTTCATGGCTGTGCGCATAATTTGCCTGGCAGAACGCTCCATT
GTGTATGCCAAGCCAGAGTGCACCGATGTCTTTCTCAGATGCACCCGATATCCTGTCTTG
GAACTCTGCCGTGGGTACCCAGGGGTCTGAAAATCTCTCATTTAGTAGTCGATAGCAAAA
TTGTTTCATCAGCATTCCTTAATATGATCTTGCTATAATTAGATTTTCTCCATTAGAGTT
CATACAGTTTTATTTGATTTTATTAGCAATCTCTTTCAGAAGACCCT

Sequence 4700

CCGCGGTGGCGGCCGAGGTACGCGGGGATTCTGGGGTTCGTTTAGAGGTTTGAATTTTCT
CGGANAAAGACAGGCCNGCCACNAGGAAAACANAAACAAGCCGNAGCAACATCTAANCCC
TTGAAAGGATCCTGAGAGAGGGGGGAAAGGGAAAACAGC

Sequence 4701

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCAGC
AGGGGGATGTGTTTCTGGGGAATTGTGGCTCTGGAAGCTTCACGGTTTCCCAGAATGTGG
AAAATATATCTGTGCAGGATAGAAATCCTGCCCAGAGGCTGTTTCTGTCTCATTTGAGCT
CTCCTTCATGTGGCAGAGCTGGCTGTGGCGTTTANGAGCCTACATTTTAGAAAAGCTTAC
CTCAAAGTTCTGCATTGAGCCTGAGACTGGAAAGGAGATACAATAAAACAGCTGACAGGA
GCTTTGGTAGTCACACATGCCTGATGGGGTGCACAGGGCCACAGTCTCTGAAAGGCAATT
TGGCATTTGTCTGTCCACAATATACTTTTATCCATTGGTCCANCAATCCTACTCTAGGAAT
TTTTCTACATATAAACCTGTATGC

Sequence 4702

AGGTACCGGGATGTGATGTTGGAGAACTACAGCAACCTTGTGTCAGTGGGGTATCAAGCC
GGCAAACCTGATGCCTTCACCAAGTTGGAACAAGGAGAACCCTATGGACACTAGAAGAT
GAAATCCACAGTCCAGCCCACCCAGAAATTGAGAAAGCTGATGATCATCTGCAGCAGCCC
TTGCAAAACCAAAAATACTGAAGAGGACGGGACAACGCTATGAACACGGAAGAACTTTG
AAATCATATTTAGGGTTTAAACCAACCAGAGCAGAAAGATACAACATAAAGGGAGCCTGC
TTGAGTTTAATGGGAGATGGAGCTTTTTCTCCATGATTAATCATGAACAAATTGCCTACG
GAAATTGAATTCCTGAAAGTAGAAAACCCATCAAGCACCCAAGTCACAATTCCTT

Sequence 4703

ACTGCTCTGCCGATNCAGGTTATATTACTCTCACACAATATGTTATCACGTAAGGGCTGG
GGAGGACATACATACTTCAGTGGGTNAACTGANGTTNGGGACACAGGGAGCTTGACTGTG
ATTCCAAGTATGTGGTAAGCTCACAACCCCCAAGATTATCTTATCCTCTAAACGGT

Sequence 4704

CCGGGCAGGTACAGTTGTTCCCCANTATCCACAAGGGATTGGTTCCAAGACCCACCTGGC
ANATATCAAATCTGCAGATGCTCAAGTCCCTGATATAAAATTTTGCATATAACCTACCT
ACATATTCTGTATACTTTTAAATNAATCTCTTANATNAACTTTATANNTGGTCTAANT
ACANATGGTTATATATTGNCTATNGCCANNATTACCTNTTA

Sequence 4705

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTCCCATG
TTAAAAGACATTTATTTATCTTGTTCCTGTCTATGGGAGTCCAGAAAAAGTTAAAACAG
ACAATGGGCCAGGTTACTGTAGTAAAGCATTTCAAAAATTTCTTAAATCAGTGGAATAA
CACATACAATAGGAAATTCTCTATAATTCCCAAGGACAGGCCATAATTGAAAGAACTAAT

Table 1

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AGAACACTCAAAGCTCAATTGGTTAAACAAAAAAGGAAAAGACAGGAGTATAACACTCC
CCAGATGCAACTTAATCTAGCACTCTATACTTTAAATGTTTTAAACATTTATAGAAATCA
GACCACTACCTCTGCAGAACAACATCTTACTGGTAAAAGGAACAGCCCACATGAAGGAAA
ACTGATTTGGTGGAAAGATAATAAAAATAAAACATGGGAAATGGGGGAAGGTGATAACGT
GGG

Sequence 4706

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGATCTTGGCTCACTGC
AACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCCTCAGCCTCTTGAGTAGCTGGGATT
ACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTATAGTAGAGATGGGGTTTCAC
CATGTNTGGCCATGGCTGATCTCAAACCTCCTGACCTCATGTGGTCCACCCACCTTGGCCT
CCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAA
AACTGACACCTATTACTGATAAAATTCTCTTGGTAAAAATCCTATTTACTATTTTAAAG
ATAAGNATTAGTTTTTTTTTTTAAATACAANTAATTCTGTTTATTGATAAAATTTANGGCA
TTTTNATTGCCTTTTGCAGATTTACTCATTACTACCCTAACA

Sequence 4707

AGGTACATCTACCTAAAGGACTATTATGTGGAATAATACATACTAATGAAGTATTACATG
ATTTAAAGACTACAATAAAACCAAACATGCTTATAACATTAAGAAAAACAATAAGATAC
ATGATTGAAACCAAGTTGAAAAATAGCATATGCCTTGGAGGAAATGTGCTCAAATTACTA
ATGATTTAGTGTTGTCCATACTTTCTCTCTCTTTTTTCTTTCTTTTTTTTTTATTATGGT
TAGCTGTCACATACAACTTTTTTTTTTTGAGATGGGGTCTCGCTCTGTCACCAGGCTGGA
GTGCAGTGGCGCGATCTCGGCTCACTGCAACCTCCACATCCCATGTTTGAAGTAATTCTT
CTGCCTCAGCCTCCCGAGTAGCTGGGACTAGAGGAACGTGCCACCATGACTGGCTAATTT
TCTGTATTTT

Sequence 4708

CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAAATCATCTCTT
GATTACTTTATAATACCTAATAACAACGTAAATGTTATGCAAATCATTGGTATACTGTATT
GTTTGGAGAATAATGACAAGAAAAAAATCTCTGTATGTTCAATACAGATGCTTTTTTCT
TCTTGAATATTTCTTATCCACAGTTGGTTGAATCCATGGGTGCAGAACCCACAGATACAG
AGGGAGAAGTGTAAAGGAGATTTGAGAAGTTTCTTCAAAAAGTTCTTCAGAAAGTGACAC
TTGAGCTGGGGTTTAAAGTATAAGATAATGTCAAAGAAGGGAGGGAAGAGGATTTATTTA
AAAACCAGAAAAAACAAAGG

Sequence 4709

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACNATCTTG
GCTCACTGCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCCTCAGCCTCTTGAGTA
GCTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTNTTGTATTTTATAGTAGGAGAT
GGGGTTTCACCATGTTGGCCAGGCTGATCTCAAACCTCCTGACCTCATGTGGTCCACCCAC
NTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCNCTCANNCTACAAGCNN
TTTTTTAAAAACTGACACCTATTACTGATAAAATTCTCTGTGTTAAATCCTATTTACTA
TNTTAAAGATAAGTATTAGTTTTNTTTAAATNCAAATAATTCTGNAATTGATAAAATTT
AAGGCATTTTTNATTGCCTTTTGCAGATTTAC

Sequence 4710

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCAAAG
ATTGATTCAAAGTGTAAGACAGGCCAGTGGATTTTAATGTATTAACAATATAAGAGTGC
ATTAAGTTTTTCGGAGTCTACATTGCCTTTAAGAACTATGACTTGTAGTAAGCCGGGCGC
GGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCAAGGTGGGTGGATCACAAGGTC
AGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAAGTCCGTCTNTACTAAAATTACAAAA
ATTAGCCGGGCGGTGGTGGCAGATCCCTTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAN
GAGAATANCTTGAACCCG

Sequence 4711

CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTAAATTGANATGGGGTCTTGTTCATGTTGCC
CAGGCTGCTNTTGAACCTCCTGGGCTCAAGCAATCCTCCTGCCTCCCAAAGTGCTGGGATT
ACAGGCATAAGCCATCGTGCCCGGCCCTTTTGGTAATTTTGTATTACTGGACCCANACTN
TGCTCCTTGGCTATAAATCCCACTTGCTNATGCTGATATTTGGAGTTAAGTCCATTAC
CCTNTTACCACTGCAAAATCCCATTACATTTGTNTATNTACCTGTCATAATGGCCCTGAA
TAAAGTCTTCTTACTGGGCTTTAACAATTCTCATTGAANAATTTTTTTT

Sequence 4712

Table 1

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CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGAGATGG
AGTCTCACTCTGTTGCCAGGCTGGAGGAGATCTCAGCTCACTGCAACCTCTGTCTCCTG
GGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGCGTAGCTGANATTACAGGCACATGCCAC
CATGACCAGCTAATTTCTGTATTTTGTAGTAGAGACGGGGTTTCACCACGTTGGTCAGGCT
GGTCTCAAGCTTNTGACCTCAGGTGATCCACCCACCTNAGCCTCCCAAAGTGCTGGGATT
ACANGGTGTGAGCCATAGCACCCGGCCAGAATATTTTCATNTGGCTTNGCAGTAAACTGT
CATAATCAGNAGCTGTGGATGTCAAGTTCACAGTCTCACAGTCATTTTCCCAGAGGTCTN
CAAATNAAACACTTATGATAAATT

Sequence 4713

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACCGNAAAAATGTAATTTATTT
AATNCAAAGCTNCATTTTTCNTATTTTNAACANCTAATNAAANAAACNTTCAAAAAA
TTNNTTNCNTCNNAANAAGTTAAANNCNTNNAAGGAAC TGNANGTAAANCANTTTNTAA
AAACCAAANTGNGCNAANNCTNTNCANAAANAAGGCCAAAGTTACNAATTTGNTNANAGG
GANCNNTTTCANCTTTTTCCAANNACCTGCCCGGGNGGNCGTTTNAAAACNANGGGANC
CCCCGGNCTGGGGGAATTTTANNTNAAGCTTTATNNANACCNCCNACCNNAAAGGGG

Sequence 4714

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTTTTTTTTTAATTTGATAATTAATATCTGGCANAAGTTTCACATGATCA
CTTACTCTACCCATTTCTGGAATGTCCCGAGTTTCCANCTTCTTAANGCTGTTTACT
CCTGAGCGTTCTTCAATCTNTNTCCCAGGAGGTAGAATCTAATANAATNTANGCACTGAC
CACTTNTAAAAA

Sequence 4715

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTTGTAAAGACGGGGTCTGGCTTTGTTGCCCTGGCTGGTCGCGAATTCCTGGACTCA
AGCAACCTTTCTGCCTCGGCCTCCCAAATGCTAGGATTATAGGCATAAGCCACTGTGCC
TGTCCAAACCTTTATTTTAAATGACAAAACCTATTTTCTATAACTCTGCTTGAATGCT
GTATTTATCCTAAGCACCAGTTTGGCCCTAGCTGGCCTGTATACAGCTTTAGGTAGGCT
CTTGATCTANTTTTGCTATANGCAGGGTANGATCTCAAGTATTTNATATTTTACTTGTGG
CANAAACAGTGTTAAACCTTTCTT

Sequence 4716

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGG
GATGGAGTCTCACTTCTTGCCAGGCTAGAGTGCACTGGCACGATCTCGGCTCACTGCAA
CCTCCACCTCCAGATTCAAGCAATTCTCCTGTCTCANCCTCCAGGTAGCTGGGATTAC
AGGTGTATGTCATCATGCCAGCTAATTTTGTGCTTTTAGTAGAGATGGGGTTTCACCA
TATTGGTCAGGCTGGTCTCGAATTCCCGACCTNAGGTGATCCACCCACCTCGGCCTCCCA
AAGTGCTGGGATTACAAGTGAGCCACTAGGCCCCGACCCAATTCTTTAAACCAGAATAA
AATAATTGATTTAAAGAAAGTTAAATATGGAGGAAACAGGGGAGCCTTTAGCACCTTTGA
GTTAGTTGAAAAGATTGTAGATTTTAGAGACAGAAAAACATTGAGTTCAAAT

Sequence 4717

CTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCATCCACGTCCTGGGCACCTGGCCGAA
CATGGCCAGGTAGGGGCTCGTAGATGACCGAACGGAATATCCACCTCCAGCGCTGCTTCA
TTCTGCCTAAGGGATCCCTTGCCCTGGCCACGCCAAAGGCCACCATCCACACCGCNAAAAG
AAGGAACAGTGAANAAGGAACACATTTCGGATCAGCATCCTCTGCAAGCATTTATAATTCT
TGGGGTCCCTAAAGTTTTTCTGCTTTACCAGATAAAAAAATTGTTGGNATTCAAATTCT
TTAANAAGTTGANAAAATTAAATTGTTANTTTTCNCAGNACAANGAAAAAANTNGACCTTC
CNTTCNCAAGTAAATTACCAAAAAAGGAGGCCTTTTTTTTATTATAGGAAAGGAAGNNTGG
GTAANCNCCCGAAAAAATTAAACCAATTNTCCTTGGCTTNATTGAAAANTNTNAAANAA
AAAGGCCCCCCCCAAGGNCCGTTTGNNTCCCAATTCCANCNATTTTCCCAACAAGGGTT
NCAAAGATNAAAAAATTAAATTTTTCAACCCCCCNA

Sequence 4718

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTGGCTCCTCATCT
ACTCGGGCTTATGCCAAAGATGTAAATTTGGTGCAAGTGCCCGAGCCTTAATGCTTCAA
GGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGAAGAACAGTG
ATTATTTGAGCAGAGTTGGGGAAGTCCCAAAGTAACAAAAGATGGTTGTGACTGTTGCAA
AGCCAATTGACTTAAAGATAAATACAAAAACATTGGAGCTAAACTTGTTCAGATGTTG
CCAATAACACAAATGAAGAAGCTGGGGATGGCACTACCACTGCTACTGTACCTCGGCCGC

Table 1

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GCTCTCTTCCAGGACATCAAGAAGCCAGCTTGAAGATGAGTGGGGTAAAACCCAGACGC
CATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCC

Sequence 4719

ACTACTCACTATAGGGCCGAATTGGAAGCTCCACGCGCGGTGGCGGCCGCCCGGGCAGGT
ACGGTGTGGCANTGCCACCTAAAGCCCCAGCTACTGAGGAGACTGANACAGAAGGATTG
CTTGAACCTCATTAAGGCTGAACCTGCANTGAGCTGTGATCATGGCACTGCACTCCAGCCC
TGGGCGGGTAAAAAGTGATGANCCGTNCCAAAAAAATTTAAATTANCNAANANGGAC
CTNCATTATTATAATTTAAANTTTTTTGTAATAAAATTTTACTTCTTAAAAAGGGTAAAN
TTAATTTNNAAANAGNAATTCNNCNAATAAAATATTTATACCAACNTNGNATTANTTTTT
TAAAGGTACCCCTGGTTAAAANGNTTTTTCTNCATATTATTCAATTAACAAGGTGNANT
TAATTTAAAAGGAACCTCCAATNGNGNGTTTNANGNAAAAAAA

Sequence 4720

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTTTCTTTGTAATTA
ATATTCTATTAGACCACCACATCACACGGATTCTTTTTTGAGGAAGGACTTGTTGCTCAG
TTTTGGTCAGTGCAGTCAGCAGATAGCTTCCAGCACTTTCTGCATGACTCATATCACCCA
AGGTCACACCCCTTCCTGGTGCAGCTTGACACAAATGCCTGAGTGAGATGGGGTGGAAGT
CCCACTTCAGAGCTCCCTGCCGGTTGCTGAAGCCAGGACTACATTTTCAGTGAGATTGCTC
CCTTAGCCCAATTATACCTCTTCCCCCTTCCTTTCACATATGCTGGTCCCTAGTAAATAC
ATTGCACCCCAACTCTGTCTTAGCATCTGATTCCAGAGAACCCAACCTGAGTCATTTCT
TATTGGGAGACATTTTTTGAAACCCTGTGAATAATCTGTTTGTTATT

Sequence 4721

ATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGACTCT
CAGTGTCTGTGGAAACATGATTGAAGACATTATAAGCGAGTGCGTGTGACCTATAAGGAA
AGTCTCATTGGTAGAAGAGACATGCATGGTAGAAAGGATGATGCACAAAAGCAGCCTGTT
AAAAATCAGCTTGGATTAAACCCGCGAGTCACATCTACCAGAACTGCAGCTATTTCAAGCT
GAAGGGAAAATATATAAATATGATCACATGGAAAAATCTGTCAACAGTAGTTCCTTAGTT
TCCCCACCCCAACGTATTTCTTCTACTGTCAAAACCCACATTTCTCATACATATGAATGT
AATTTTGTGGATTCAATTATTCACACAAAAGAGAAAGCAAATATTGGGACAGAACTAC
AAATGTAATGAGCGTGGCAAGGCCTTTCATCAAGGCTTACATTTTACTATACATC

Sequence 4722

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCATGCCTGGT
TTATTGTTTTATTTTTTTGGCAGAGATGGGTCTCACTGTGTTGCCAGGCTGATCTCAA
CTCCTGGCCTTAAGCGATCTCCCATCTCAGCCTCCCAAAGTGCTGGGATTACAGACCTG
AGCCACCACACCTGGGCAACAGAGTGAAACCTGTCCCTGTTTTCTGCTCTTACTCTCAC
CTCTNAGGCCTCCTCTGCCTGGAANAGATTACAGGGAAATTNCANGCAGCCCTTGTCAT
TGNTTTTATGAATTCTTTACCTGNTCC

Sequence 4723

CCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTATAT
CANAAGTTAGGTATCTTACTCANATTCATTGTTAAATATTGTCCCTTGAAGACCACACAT
TCTGTATGTCANTCCTGGCTACAGNAACTCANTTGGTNTGCATCCTTAGGGAGGTGCTGT
GTCTNAANTGAAAATGT

Sequence 4724

CCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTACTTTGGCAACAAATATTTATACA
TACAAGATGCTAGTTCATTTGAATATTTCTCCCAACTTATCCAAGGATCTCCAGCTCTAA
CAAATGGTTTATTTTTTATTTAAATGTCAATAGTTGTTTTTTAAATCCAATCAGGGGT
GCAGGCCACCAGTTAAATGCCGTCTATCAGGTTTTGTGCCTTAAGAGACTACAGAGTCAA
AGCTCATTTTTTAAAGGAGTAGGACAGAGTTGTACAGGTTTTTGTGTTGTTTATTGC
CCCCAAAATTACATGTTAATTTTCCATTTATATCAGGGATTCTATTTACTTGAAGACTGG
TGAAGTTGCCATTTTNGTCTCATTGTTTTCTTTGACATAACCTAGGATCCATTATTTCC
CCTGAAGGCTTCTTG

Sequence 4725

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATATGCATTC
ATCAATGTGCACATCAGAGAACAAAACACCCAGTGCAGTGTGCCAGATCCCAGTTGAGTC
ATGATAGGCTGGGCACGGTGGCTCATGCCTGTAATCCCAGCACCTTGGGAGGCCAAGGCA
GGTGGATTACCCAAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCGTC
TCTACTAAAAATACAAAAAATTAGCTGGATGTGGTGGTGGGCACCTGTAATCCCAGCTA
CTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGGAGTGAGCCA

Table 1

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AGATCGTGCCATTGCACTCCGGCCTGGGCAAAAAGAGCAAACTAAATCTCAAAAAAAA
AAAAAATNGGAGAAAAGAGT

Sequence 4726

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGTCTCAGCTTCCAGCCAAAATGGCGG
AGAACAGCGAGAGTCTGGGCACCGTCCCCGAGCACGAGCGGATCTTGCAGGAGATCGAGA
GCACCGACACCGCCTGTGTGGGGCCCACCCTCCGGTCTGTGTATGATGACCAACCAAATG
CGCACAAGAAGTTTATGGAAAAGTTAGATGCTTGTATCCGTAATCATGACAAGGAAATTG
AAAAGATGTGTAATTTTCATCATCAGGGTTTTGTAGATGCTATTACAGAACTCCTTAAAG
TAAGGACTGATGCAAAAAAACTGAAGGTGCAAGTTACTGATACCAACCGAAGGTTTCAAG
ATGCTGGAAAAGAGGTGATAGTCCACACAGAAGATATCATTCGATGTAGAATTCAGCAGA
GAAATATTACAACTGTAGTAGAAAAATTGCAGTTATGCCTTCCTGTGCTAGAAATGTACC

Sequence 4727

GTAATACGACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAC
ATATCCTCTGTGGGAAAACTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCA
AACTGGAAAAAGTATCTCAATGTCCTGAATGTGGGAAAACCTTTAGCCGAAGTTCTTATC
TTGTTTCGGCATCAAAGAATCCACACAGGCGAGAAGCCTCACAAGTGCAGTGAGTGCGGGA
AGGGCTTTAGTGAGCGCTCCAACCTCACTGCCACCTACGAACTCACACAGGGGAGAGGC
CCTATCAGTGTGGGCAATGTGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTCCACC
AGAGGACCCATACTGGGGAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTCAACA
ACAGTTCCCAGTTCAGTGCTCACCGGCGCATCCACACTGGGGAGAGCCCATACAAGTGTG
CAGTGTGTGGGAAAATCTTCAACAATAGCTCCCACTTCAGTGCCACCGAAAAACCCACA
CTGGTGAAAAGCCTTACAGGTGTTCTCACTGTGAGAGAGGCTTCACTAAGAACTCTGCCC
TCACCCGTCATCAGACAGTACCTGCCC

Sequence 4728

CGCCCGGGCAGGTACTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTCNTTTNTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAACNGGGNNTNAATTTNNTA
AAANAGNTGNNTTAAACNTTTNNAANGGGGANTTCCNNTNAANTNCTGGNTTAAANNTN
NNGGNANNAATTTTTTTAANAATTTNAAAAGGNCTGNGCNANNNAANGNGNNCNTTNNA
ANTNTNATTTNGAAANAAACCCCCNTTTTAAANCTTCNCNANAAGGGNTTTTTTTTNGA
NGGNTTTNNAANTTTTGGNNGGGANTTAAANNNGTCNTTTNAATTTNAAANTTTTTTTT
TTTGCCCCNTTTAAAAAGNNAACNNNNNCCTTTTTCAANGNTTTTACCTTGNGGNTTTNT
AGGGGGAATNNAATTCGGGGAAATGCCCCCCCCCGGCTCCANGGGNNTTTTCCGGNTTN
NTTAAAAACCTNNTTTTTNCCCCCGGGNTTTTANNCAAATTAANTCNTTTGNGNANAAN
NAAAAACGGGGNTATNTAAGNACAAGAANNCTCCGGAANAAAAAAATCNTANNANNCTTA
AAANCACGGGTTTTTTTTTT

Sequence 4729

GAATNGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTCTGNACNTTTTTTTNT
NNGNTGCTTGAAACTAANGACTTAAGTGTTTTTTTCCGNATCNCCTNAGCCCCATGTTTT
AGACTATTTTACCCCAAATTTGTATNTATTAATTTGGCTNCCCATTGAAAAACAAATT
GATCTTAGCATGGNNGGNTNGCTTGAGGCANTCTTTACTGANCCAGTATANTTNAGCTAA
NACAGTNGTNTCTCATGTNAAAGTATGATTTTCTTTAGGTTTTTTTT

Sequence 4730

ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTT
GTAAGACGAGGTCTTGCTCTGTTGTCCAGGCCTGGACAACACAGCATGTGCAGTGGTGTG
AACATGGCTCACTGCAGCCTCGACTTCCCAGGCTGAAGTGATCCTCCCGTCTCAGCTTGA
GAGTAGCTGGAACCACAGGTGTGTGCCACCATGCCAGCTAGTTTTTAAACTTCTTGTAG
AGATGGGGTCTTGTCATGTTGCCCAGGCTGGTCTTGAACCTCTGGGCTCAAACGATCCTC
CTGCCTTGGCCTNTCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTGCTACACCAAATG
TTGACAAGGCTGTGTGCAACCTGAATTNNCATAATTTGTGGTGAAAGGATAAAATGATA
CAATCACTTTGAAAAAAGGTCTTAACCAGTGTCTTACGAACTAAACATAGACCTACACT
AGGACCCAGCAATTTCACTTCCCAGGTATTTATCCCAAGAGAAATGGAAAGCATATGTTT
AACAAAGAAACAACNTTTGTCTTCCCGGGCCGGCCNGTTNTTANAAC TAGTGGGAATCC
CCNCGGGCTTGCAAGGAATTCNANTTNAAGCTTATCGAATACCCNTNGACCTCGAGGGG
GGGGCC

Sequence 4731

CGCCGGGCAGGTACAAAAATATAAATTGGATCTAGAAGAAAGGGCAATTCAGGCAATAGA
AAAATTAGTAGAAATCCCTTTAAAGGTAGTTTGTAAAATCAGGTAAGTTTATTTATAAT

Table 1

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TTGCTTTCATTTATTTCACTGCAAATTATATTTTGGATATATATATATATATTGTGCTTC
CTCTGCCTGTCTTACAGCAATTTGCCTTGCAGAGTTCTAGGAAAAAGGTGGCATGTGTTT
TTACTTTCAAATATTTAAATTTCCATCATTCTAACAAAATCAATTTTTCAGAGTAATGAT
TCTCACTGTGGAGTCATTTGATTATTAAGACCCGTTGGCATAAGATTACATCCTCTGACT
ATAAAAACCCTGGAAGAAAACCTAGGAAATATTCGTCTGGACTTTGCACTTGGCAATGAA
TTTATGGGCGCTTTGGGAATCCTGCAGATATAATAATGATAATTAAACAAAACACTCAGA
GAAACTGCCAACCTTAGGATGAAGTATATTGNTACTGNGCTTTGGGGATTAAAATAAGTA
CTACAGTTTATAGAACTTTTNTACTGGATACACAGACCCTAAAAAAGGGAAAAG

Sequence 4732

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTGGTAGAGGAACTGCTGTAAAATCTTTGTT
AGATAATTCCAACATCTCTGTCATCTTGACTTTGGCATCTATTAATTGTCTTTTTTTTCT
TTCAAATTGAGATGTTTCTGGATCTTGGCATAATGAGTGATTTTCTATTAAACCTGGAC
ATTTTGGATATTATGAGAGTCTGGATATTACTTTGACTTTCTGTTTTAGCTGGCTTTCTC
TGACACTGCTCTAAAAGAGGCAGCGCAGGGAGGCACTTCCCCTGTTACTACCAACTGGAG
GTAGAAGTCTAGGTTCCCACTCAGCCTTTACTGGCACCAGGGATGGGGGCTCCTTGTTA
CTGCATGGTGG

Sequence 4733

AGGTACGCGGGGTTCTCTTGGTAGGTGCTTCTCTCCCAGACTAAAATCTGATTCTCAG
CACAAATCTCGCCTTCTATTTACTCAGCTATTCTCTCTTTAGAAACAAAAGAAATTAG
TGGATGCTGGGCTTCAGAACTCCTGACCATGGATCCAACCAAGAGAATTACCTCGGAGC
AAGCTCTGCAGGATCCCTATTTTTCAGGAGGACCCTTTGCCAACATTAGATGTATTTGCCG
GCTGCCAGATTCCATACCCCAAACGAGAATTCCTTAATGAAGATGATCCTGAAGAAAAAG
GTGACAAGAATCAGCAACAGCAGCAGAACCAGCATCAGCAGCCCACAGCCCCCTCCACAG

Sequence 4734

CTATAGGGCGAATTGGAGCTCCCCGCGGGGGCGGCCNAGGGNCCGGGGAGGNNTTNCCCA
GNAATTAATNATGGCNTNGTTNGATATTGAAAGCAAAGTGGACCCTTCCAAGGCCTGGGG
AGAAGTGAAGAGACAGATTTATGTTGCAGCCTTCACAGTGCAGGCAGCTGCAGAGACTTT
TGAGTGAAAGTAGCCTAAGAAGGATTNTTTTAGAGAAATCCGTATTGAATTTGTGTGGTA
TGTCACCTCAGAAAGAATCGTAATGGGTATATTGATAAATTTTAAAATTGGTATATTGTA
AATAAAGTTGAATATTATATATATAAAAAA

Sequence 4735

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACACAGAA
AGAGATCATTTTGGAGAGTAAGGCTTTTAGGAGTTCTGTGCCAGAAATGGGGTTAAAGAT
AAAATATATGTTTACTAGTATCATAAGGGTTATGATGTATAGAGGGGGCTCAAACCTCACT
AGGAATCCAAGAATACAAAAATAAAAGACAGGCCGGGAGCAGTGGCTCACACCTGTAATC
CCAGCACTTTGGGAGGCTGGGGCAGGAGGATCGCTTGAGGCCAGGAGTTCAAGATCAGCC
TGGGCAACATAGCAAGACCCTTTCTNTGCAAAAAAATTTAAAATTAGCCAGGCATGGTG
GCACATGCGTGTAGTCCTAGCTACTCAGGAGGTGAGAGGATTGTTTGAGCCTGGAAGGTC
GAGGCTGCAGTGAGCCATGA

Sequence 4736

AAAAAGGGTGGGGAGTGCCCTTTNTTGAAGGAATCCNTTAAGTGCACGTCTCCCGTTTTTC
TTTTACATCAATGCAGAGTCCCTCTGTGAATTTACAACACCCAACACCCATGAGTTCAA
GTTCTTTAAANGAAGGGAAAAATTTTANNCCAAGGTATTTNAAAATTTGGGTTNGGAACC
ATTTGCTATAAAAAANGAAAGGGTGCCCATTAATACCCAGNGCCTTAAACCTCTTTANNA
AAAATTTTTTAATNTGCNTNCANAAACCTTTTAGGACTTGGGGCNCTTCNTTTTTTAATTT
ANCCTTGGGCCAAGGAAGNGAACNCNAATTTTNNNTTNANNGATGGGGCAACNNTNGGN
GGGGAAAAATCNTTTTGGGGCTAACNCCCCANGGAAAANGAAAA

Sequence 4737

CCGGGCAGGACCCACCATACAAGCCAAGGGAGCTTCAGGTATTACAACCTGGATCATAG
CCACGGTCTTGGCTTCTCTCACTTTTCCCCTGGTTTTGGTCTCACTTCCAGTTCTCCAA
AATCTACCTGTGTCCTGACTCTGGCTGTGATTCTACTCTAAGTGCCATACACATCCCTTT
CACCCTGACAGATTTTGCTTCCCTGGTTGTGACATTCAGCATTCCTCTACTGCAGGGCTT
CTCAACCTTGGCACTATTGGCATTGTTGGGTCTGGGTAATGCTTTGCTGTGGCAACTGTCCT
GTGCATTGTAAGATGTTAAGCAGCATCCCTGACCTCTGTCTACTAGATGCCAGTAACACC
CCATCATTTGTCAAATGTCTCCTGGGGCACAATGTGGCACCTGGTTGATAAACACTGATCT
AC

Sequence 4738

Table 1

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CCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTCGTAGAGACAGTGTTTCACCATGTTAGC
CAGGCTGATCTCGAACTCCTGACCTCAAGTGATCCACTTGCCTCGGCCTCCCAAGGTGCT
GGGATTGCAGGCATGAGCCACTGCGCCTGGCCCTAAATACTTTTCTAGTAAAGAACATAA
CCAGTTACACTGAAGGCTTTGAAAGTCTTCAACTGGTATGAATCCTAAAAAAGAGAGG
GCACCAAGTCTACAGGGAGCTTTCAGGATGGAGAAAGCCCTTNCAAATGGGAAAGGAGGT
CAAAACGGATGCTGCCATTACTGAAAACCAAATGCCTTACTATGTCATTTTCCTAAATAA
CCAGCCTTCTTAACCCCTTTGGGACTTAACCNAAAACCCAGGGAAATTCCAGGAAACCA
TTTTATAAAATTAAATGGCCANGGGCTTGGNTTAGGGGAAACCATTTTGGA

Sequence 4739

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGGTACCCCCAGCT
ACCTCCCATGTTTCCAGGTATCATTGGCTCTTAAGTCCACAAGCCCGCCTTTTGCTAC
CCATCCCAACAATATCAAGAGGGAATGACTAAGTATCAGCTAGAACTTAGCCATGTCTC
AACATTCTGGANTATNTGAAAAAGCTGTCCGATGCCCTTTTACAGGTTTATTGGTGACA
GACCCGTATCATCTTAAAGTATGTTTCATAGTTAAGGCTTGACTTAAGAAAATAAGAGAAC
CAGACATAATGGAAAGACCTCTTCAATAATGTTGTCATGCCTCTCAGTGAACGTGCTCAC
AGTCACGCTTGGTTTGGCTCCCCAAACCCACAATAGAAAAGGAAAAATGAGTATTTTGT
TTTCATCTGTTTTGTATTTAAAGGCATTGGGTACTTCCTCCTGCCCTCTT

Sequence 4740

GGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCACGGTACTTTAAACAATTGCTTTGCTGAGA
TGTTGTTAATTTGTAGCTTTGCCCCAGCCACTTTGCCCCAGCCATTTNGACCCAACCTGG
AGCTCACAAAAACATGTGTTGTATGAAATCAAGGTTTAAGGGATCTAGGGCTGTGCAGGA
CATGCTTTGNTAACAAAAAGTTTACNAACAGTATACTTGGTAAAAGTCATCTGCCATTC
TCTAGTGTCAATAAACTAGGGGCACAATGCACTGNGGAAAGCCGCGGGGACCTNTGCCCT
TGAAAGCAGGNTATTGTCCAAAGTTTNTCCCATNTGATNGTCTGAAATATGGCCTNATG
GGATGAGAAAGACCTGACCGTCCCCCANCCCAACACC

Sequence 4741

CGCCCCGGGCAGGTACGCGGGGGGGTGCTCTTGTGAGCTGCTGCTCCTGCGGTGTTGGTGAGA
TTACCTGGGTCTAGAGTGCGGAGCTGCTCCGTGGCCACGAGGACGTCACCATGCCCAAAG
CACCAAAGGGAAAAAGTGCAGGACGGGAAAAAAGTCATCCATCCATATAGTAGAAAAG
CAGCTCAAATTACGAGAGAGGCCCAACAAGAAAAAAGGAAAAATGAAGAATGAAA
AGGCCTTGCGTCTCAACCTTGTGGTGAAAACTGCAATGGTTTCAAATCATCTTGATC
CCCAAAAAAGAGATATTCAAAGAAAGATGCTTGTGAATAATTGAAAGGTACTGTTACA
ATGAGACAGCAAAGTTATCCCGTTTATTCATCCGATCATTTAATTGACATTTATGGAGTG
CCTAGTATTTTCTCAATACTGCGCTAGAAGTGCTGGGAAGAGAGAGATAAAAATAAATGA
TACTCTCTTGTCTCAAGTTGCTTGCAAATTTGCATGCATTGGTTCTAGTTTGGATTTTG
NCAAATCCCAAGGA

Sequence 4742

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGAAGGCAGTGGTAACAACCCAGACTACG
CGGGGATATTATCAGAACTAATTGACCTCAGAAAAGGAAATACCCAATTCCAGCCTACT
CTAGTTGTCTGTCTCCCTAAAGGGATAGGGGAGAACTGAGAAGCACTTGTGTAAGTTT
ACAGTCCAGGAACACAGGCTCACTTAAAGATTGAGACCTAAGCAAGCATGGGTCTATAGA
ATGTTTTCCCTGCCCTAAACCTTAGCAACACATTACTAAAAGCCCATACAAAGCAGTT
CCTTTTACCTGGTCCATCATATCTGGTTATCAAGAAAATATTACAAAACATACTAAAGGC
AAAAAATCCACAAGTAGAAGAGGCAAAAGAAGCATTAACCAAGGATCAGGATAT
GGCAAGGGATGCTGGAATTATTAGAAAGAAAA

Sequence 4743

CGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGA
AGGCAGTGGTAACAACCCAGACTACGCGGGGATATTATCAGAACTAATTGACCTCAGAA
AAGGAAATACCCAATTCCAGCCTACTCTAGTTGTCTGTCTCCCTAAAGGGATAGGGGAG
AACTGAGAAGCACTTGNTGGANGTTNACAGTCCAGGGAACACAGGCTCACTTAAAGATT
GAGACCTAAGCAAGCATGGGTCTATAGAATGTTTTCCCTGCCCTAAACCTTAGCAACA
CATTACTAAAAGCCCATACAAAGCAGTTCTTTTACCTGGTCCATCATATCTGGTTATCA
AGAAAATATTACAAAACATACTAAAGGCAAAAAAATCCACAAGTAGAAGAGGCAAA
AGAAGCATTAACCAAGGATCAGATATGGCAAGGATGCTGGAATTATTATAAAGGAAA

Sequence 4744

CCGCGGTGGCGGCCGTCCACATCCCGAAGGCCATAGCGTCGAGCAAGGTCACAGGATGGC

Table 1

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AGCACCTTACCACTCAGGCTCAGGATATTGGGATCTGCTTCAACACAGGATCCTGCAGGA
CCTCCTCCTTTGCCATATGCTCCTTCAGCAGTTCTGTCTGCACAATCCCCCGCGTACC
TGCCCG

Sequence 4745

TACACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGCCCTGCAGGCCTCT
GCCCTGAAGGCCTGGGGCGGGAAGAAGGAGAACCCTGAAGGCTGCGCAGGAGGAGTATGTC
AAGCGAGCCCTGGCCAACAGCCTTGCTGTCAAGGAAAGTACCTGCCCGGCGGNCGNTCT
AGAACTNGTTGGATCCCCNNCTTGCAAGGAATTCGATATCAAAGCTTATTCGATACC
CGTC

Sequence 4746

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACGCGGGGATCTTAT
TCTGGCCTTGGCGGANNTGGGGATGGTGTCTCNCCTANCAACCCGCTGCCGCTTTGGCTTGC
TCGGGACCATNTGGCTGGACCCAGAGNCCGCGTGGAACCGCTATAGGGATCTGTCANGGG
CCCGCNGCCGCTCTAGAANTTGGATCCCCCGGGCTGCTNGAAATTNGNATNTTA

Sequence 4747

CCGCGGTGGCGGCCGAGGTACAAATTCTAACTAGAGTAAGAGTTCCTGGATGTGTCAAAA
ATCGTCACCTTCCCAACTCTTACATATGTAGGACAGTGACATGACTCCTGCCACAGAAG
AACACACCTGTCCTGCCCTCTCCCAACAATGGAATGTTACAAAGCAGGACACGCCTGAGT
TAAAATGAGTATCCCTGAGGTTGATAATTCCCACCATGCACCTTGAAGATGGTTCTTGAA
TCTTTCATTACAGCCCGATGAAGAGAAGATTCATTGTAGCCAGTGTACATTAGGTGAGAA
AAATTCAGAAGGCAACAGATTTGCGCTGCTGCACCAGCGACCCAAACCAGCCCGTGAGTG
CATAGCTACTGCCAGCACTTAAAGAAAGGTGAGCCGTTGGATACTCTGGGAAACCGAGAA
AGCACCTTCTACTGCAAGCGTGAAGAACATGATGCCACAGAAAACACAACAGAAACAAG
AAGTGAGACTCTTGAAGGTAATTTCC

Sequence 4748

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAACAAATAACTT
AAAGATTTCCGTGTGGCGTGAAACCATTTCATTTGAACTAATATCCTTGAAAAAATCA
CATTATTACAAGTTTTAATAAATACAGTAAGAAGAGCTGGCATTTTTCTAAAATACTGAA
TTTCAGATCTGGAGTTTATTCCATAAATAGGNTTCTTTTCANTTGCTGCTTTCTTGGGAT
ACATTTGCTCAAGTATTTATCTCTATGAAGTGAACCTTTTCATAGATACCATATAAAAA
CTGTATTAATATGTGCCTCATTATAGAAGCAGCTGGAAGAACTGGATCACACAGTTACCT
AACTGAAAAGTNACTTAGGAAAAAGCTCTGCTTTTTGTAAAACTTTAAATCACAGGCTGA
AGAATACCAANGAAACATTTATATAGAATCCCACTAGAAATTTTATAAATATATATGTA
GCATATTTATATATAT

Sequence 4749

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGCCACAACTGA
TCACACTGCTTCTGGTAAGGGTCTGGCAGGAAGCTGCAGCCTTTCTCAAGAGCAGCCAGG
ATCTCCTGCTTGGTGCTGTTTTTCTCCAGGTTCGATCCAAATAACCCACCAGCTTCTTG
CACACTTCGCAGAAGCCACCGTCCTTTGGCTGAGTCACGTGAAACGGGTCANTGCATGCA
GCCCCGCTGCCAGAGCANAGGTGCAGCATGCTNCACACCAGCTCAGGGCTGACCTCCTCC
AGCAGGATGGACAGGATGGAGCTGCCGTACGCGGGTATCTGTCTTTCACCTAGTGTGCTT
TTTGTGTGCACACTATTCACCAAGCTTTGTTCAAATTTGCAAGGGATACAGAAAGGACTG
NGAAAGNGACTGGTGGATGAGAAAAACAAAATATCTT

Sequence 4750

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGAANAAGGGGTCACGGGGGCTCCTTGATATTAGGGAACAGGGACCTGA
GCTTTTACAGCCCTTCATATTTATTAGGTANAGTGAATAGGGAG

Sequence 4751

TAGGCCCACCGCTGCTTCTCAGGCGGCAAAGACTANTATGGCAATAGGCACAATATTGGC
TAAGAGGGAGTGGGTGTTGAGGGTTATGAGAGTNGCTATANTGAACAGCCGATAGTNTTN
TTTCTTCTANGCANTAGTACNGGAGGATATGAAGGTGTTGAGCNATATACTAGTATTCC
TAGAAGTGAGATGGTAAATGCTAGTATGATATTTATGTAAATGAGGGGCATCCCGCGTAC
GGATGCTACTTGTCCAATGATGGTAAAAGGGTAGCTTACTGGTTGTCTTCCGATTCAGGT
TAGAATGAGGAGGTCTGCGGTTAGGAGTCAATAAAAGTGATTGGCTTAGTGGGCAANA
TNATGCTTTGTTGTTTGGATATATGGA

Sequence 4752

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACGCGGGTCT

Table 1

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GATCGCTAATGACAGTTGGTTCTGTTATCAGCCACCAATCATGTTAAATACAGTATGTAG
AATGGTTCAAATCTAGGAAGCATTTCGTTTGCAAAGAAACCTGTATATTTACAGACTTTA
AAAGATGGATTTTTTTTTTTTTTTAGAGAGAGACCTTGATAATTTTTTNAAAACAAAGCTT
TTTTGAAAAAAGGTNNGGCAGTTTTCTTNGGGNGTNGGGGGGGAGNGGA

Sequence 4753

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCATTTAC
TTCATAATTTCTTTTTTCTGAAGATAACTTGTGCTTTCAGTTGTGAAATTAAAGTCCAA
TGAGACCAAGTTAGTATAATTCTCCAACATCACATCTCTGTACTGGGTTCATCTCACTAG
GGAGTGCCAGACAGTGGACGCAGGACAGCGGGTGCAGGGGCACCGTGCGCCAAGCTGAAA
GCAGGGGCGAAGGCATTTGCCTCACTCGGGGAAAGCGCAAGGGGTGAGGGAGTTCCTTTT
CCAAGTCAAAGAAAGGGGTGACAGACGGCACCTGGAAAATCAGGTCACCTCCACCCCAAAT
ACTGCGCTTTTCCGACGGGCTTAAAAACGGCACACCAGGAGATTATATCCCGCACATGG
CTCGGAGGGTCTACGCCACGGAGTCTCGCTGATTGCTAGCACAGCAGTCTGAGATCAA
ACTGGAAGGCAGCAGTGAGGCTGGGGGAGGGGCACC

Sequence 4754

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTCTCTCGGCCTT
AGCGCCATTTTTTTGGAAACCTCTGCGCCATGAGAGCCAAGGTGAGCGGTTCTTGGTAGT
AAGCTTGGGAGGTAGGAGTTGGCGAGTAGTAGCGAGGAGACGAAGGCAAGTCCGCCATAC
CTCCTGAACTACTGGGTTTCAAGGGTGCCCAAAAANCTGTTGGGAGAGAGAAAGGTAGTT
TGTGAGAGAGCTAGCGGTTAAGTGCTATGGGTAGAGAGGGTGGGCTTAGAAAAGGGTGGA
ATTCTGATCTTATGTTGGGAGGGTGTCCAAGTTACTGATGTAAGTTGTTACGACCAATCT
TTCATACTTCTTGGTTAAGAATCTGTCCGGTTCTAAAGAGTGCATTTTCATATCCTTGCTA
AGCCTACTAATAAGCTTCATCCCTTTTTTTTTTTTTTTTTT

Sequence 4755

CTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGTCACCTTCTGCGCCCGCTCT
CCTGCGCCAGCTTGAAGGCATACTCGGCAATGCGCAGGGACTTGGCCTTGGTGATGATCT
TCAGGCTCTCCACCACTCCCGCCACACTCTCATGCTCCAGGCTGCTGTACCT

Sequence 4756

CCGCGGTGGCGGCCGTCGCTCCCCTGCTCCTCCTTGGTGGCTCTGTTTGGAGACAGGGCA
GGTGAATGCTCCCTGGATCTGTTGCTCTTTTTCTTTCAGCCTTCGGGCTGACACTGACTC
CCCGCGTACCTCGGCCGAGGTACTCAGGACTTTTGCGGTTCTGTAAATCTGTTTGTGAG
TTTCTTTGTTAGCAAAGTATCTAGTGCAGCCTCGGGTTTAAATACCGAAAAATTATCTGG
GTGAATCAAATGAAGTTTTTCTCTAATATCTTCAGAAGCACCAGCACACAACCTATAAA
AGATATGATAATTTCTTTCTCTTTGCCTTGAACACAGATCCTAGATTTCTCTAGGAGAT
AATGTGAAACAAATCCTCCAACAACCTGAGCTCTTTTCATTAAATGTATTTCTACAAATT
TCCCAAATCGACTGCTATTATTGTTGCGAACAGTCTTCGCATTTNCAAAGGCTTCTAGGA
GTGGGTTAGCTTCAACAAT

Sequence 4757

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTGGAGACAGAGTTTCACTTTTGTGCCCAGGCTGGAATGCAGTGGCACGATCTCC
GCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATCTCCTGCCTTAGCCTCCCAAGTA
GCTGAGACTACAGGCATGTGCCACCATGCCTGGCTAATTTTGTATTTTGGCAGAGACGG
GGTTTCGCGATGTTGGCCAGGCTGGCTTCNAACCCCTGACCTCAGGTGATCCACCTGCCT
CGGTCTCCCAAATGCTGGGATTACAGGCAATAAGCCACCGTGCTGGCCGGCTCTGGCC
TNTTTTTTTAAACTCACTAGATTTTATGGAAGTTTCTGACACCGCAGCAGTCTCAAGA
CACCAGTGCCTGAGTCACTCCCTGTTCTCTGACAGG

Sequence 4758

CCCGCGGTGGCGGCCGCCGGGCAGGTACAACCTGAATAATATGAGTCCTGCCATTTCTTT
TATTTACACTCTTGACTCAGCAAGAATTATGACAGAAGTCCGCATGGTTATCTGCAGCTT
GTTAAGTCTTCTACAATGGCTTGGACTTTATAACCCACTCAGCATTTGGGTAAAGCTGA
TATAAATCCTTCATGTAAGTGTCATCATCAAGGCAGCGTTCCCAATATTTCTCCCCCG
CGTACATTCGTGGTCATAAAATCTGCAATCTGCTGTAATGCCAATAGGCCTGTGGGGTTC
TTCCCCTTCTTAAATTGCTCCTGTATCATTTGATTCC

Sequence 4759

ATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGAAAAACATTCCGCCACGACGCCACC
GAAGCTGTGGCCAGAATGGAGAATCGATTCCATTTCAAGGCTGCCACAACCTCTTCGGAT
CTCACTCACAAAAGTCTGGAAGTAATATGGGACACCTGGGCTGTAATGGGACGAGAGCCC

Table 1

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ATGACCTCCGAAATCCATGGCAACGTAATAAAAGTCTTGCGGGAGAAGAGGGATGAGTCT
 GTCGAAGGAGCTGGCATTGTCCAGCCAGCCGTGCAGGCAGAGAACTGGAGGGCCCTGCAG
 GGAGCCCCAGGCTTTGGCTGCGATGTGGCCCCAGGGCACAGCCAGCTTCAGCTCTGAGAT
 CAGACCTTCTAGAATGTGCTGGGGCGGGGGCGCTGGTCAGGCCTGGACCCCATCACTTGC
 TGGCTGGGTAACCTTGAGAAAGTTACTAAAACGTCTTGAG

Sequence 4760

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGTCCT
 ATAGCTGCAAGGAATTGAAACCTGCCAACAACCTGAATGAACTTGGCAGAGGACTCTGAG
 CTTGTGATGAGAACACATCCCCAGCTTGAAATCAAATCGACATATTGATTTTAGCACTGT
 GAGATACTGAGCTGAGAACACAGTTCAGCTGTTCTTGACTTCAGAACCACAGAACTGAG
 ATGATAAATGAGTGGTGTTCAGTTGCTAAGTTTGTGGTCATTTGCTTACAGTAATTGT
 AAATAATGCACAAGTGTAAGTTTGTCTTAAAGAAGAAAAAACGGGAAGGAGGTA
 AGGTGTTAAAGGGATCAAACTTCTT

Sequence 4761

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATGGTTTATTAAACGGAATG
 TATGGCCACATCAACCTAGCAAGGATTCTACTGGTAAACCT

Sequence 4762

TCGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
 GGGGCGGCGACGACCCATTCTGAACGTCTGCCCTATCAACTTTCGATGGTAGTCGCCGTGC
 CTACCATGGTGACCACGGGTGACGGGGAATCAGGGTTCGATTCCGGAGAGGGAGCCTGAG
 AAACGGCTACCACATCCCAAGGAAGGCAGCAGGCGCGCAAATTACCCACTCCCGACCCGG
 GGAGGTAGTGACGAAAAAAAAAAAAAAAAAAGTNCCT

Sequence 4763

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGACCGGTGAGCTTTCAAAAGGAGACACTT
 CGGGAGACTCGCCAGGGGCCCTCGTATCCCCGGCAGCGCGAGTTTGGAGGTCAGTGGAG
 GGCTCTCGCATCATGCATGTAACCTTTCATACTCAAAGACTTACCTTCATCCTGCATCCCT
 CACCCCCCTGCAGAACTTGGGGCTTGAATTCATTTAAAAACATTTGCGGTTTCAGAAGC
 CTTCTTTTATTATGAAGCTGCCAAGGAGATCTTAGAATGAAAGGCATTTTATAGAGATGA
 GAAAGAAGGAAGCCAGGCCAAGGCTGGGCCGGCTCTCAGCCGTGGGTCTGTAAAGGTGAC
 ACGTGGGACATGGCCACCTGCATACCCTGCAGGCGGCTGGGCANNAGGCACCCACAGGGA
 CTTGGGTTTGAATCCCTG

Sequence 4764

CCGCGGTGGCGGCCGAGGTACGCGGGATTGTAGAGACTATCCGGGTAGTTTGCAAGGGA
 AGCCAATGATGAGTAATTTGAAAGAAATTCACCTGGTGAGCAATGAGGACCCTACTGTTG
 CTGCCTTTAAAGCTGCTTCAGAAATTCATCCTAGGGAAGAGTGAGCTGGGACAAGAAACCA
 CCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCCTCCAGATTGTCCAGGGCCACA
 TTGAATGGCAGACGATGTAATTGTTAATTCTGTAAACCCACATGATATTACAGTTGGACC
 TGTGGCAAAGTCAATTCTACAACAAGCAGGAGTTGAAATGAAATCGGAATTTCTTG

Sequence 4765

ACTATAGGGCGAATTGGAAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGCAGGCTC
 CCAGCCGAGTCCGTTATGGCCGCTGCCGTCCCGAAGAGGATGAGGGGGCCAGCACAAAGCG
 AAATGCTGCCCCGGTTCGGCCATCCAAGCCCTTGTGGGGTTGGC

Sequence 4766

CAACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCACACGGGG
 GTAGTATGCAGGCAAACTTCATCCTGTAGCCATCCTCGTCCTGCAGACCCCGCTCCAGGG
 CGCGACGCTGGCGAGGGCACTTCCCCCTCAGCACACTGGCAGACTTCAGCAGAACACAAGG
 TGGCCAAGAGTCTGCTNTTACTTTGGTGCCCCCGTANAACACAAAAACATCTGCGCTCGG
 GGTGTGTAGTAGTCGTAAGTGGCGGGTAGGCCTAGGATTGTGGGGGCAATGAATGAAGC
 GAACAGATTTTCGTTTCATTTTGGTTCTCAGGGTTTGTATAATTTTTTATTTTATGGGC
 T

Sequence 4767

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGCTTGACTCAGGATTT
 AAAAATGGAACGGNGAAGGTGACAGCAGTCGGTTGGAGCGAGCATCCCCCAAAGTTCAC
 AATGTGGCCGAGGACTTTGATTGCNCATTGTTGTTTTTTAATAGNCATTTCCAAGTATG
 ANAATCCNTTTGTTTACAGNGAAGTCCCTTTGCCATCNTAAAAGCCCACTTACTT
 TCTAATGNANAAATGGCCCACTCACTATTTCNAAANNCCANACCCNGGGNNAGGNANAN
 AGACANCTNCTTTTCCNTNGNAAAATCTATTGTTTAAATGCCACAAAANNTTTTTTTTAAA

Table 1

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TCCTTCNNNCNGGCCAAAATGNANAAGNGNNNNATNTCTCGANANTAATTTTTTNNACA
TTNCATTNAANCCCNTTACGTTGCCCCCCCCCCTTTC

Sequence 4768

ATANGGCGAATTGGNTTTCCTCCGCGGTGGCGGCCGCGCGGGCAGGTACTGAGAGGGCAAA
CCAAGGACAGAATAGAGNTATGTGGCAGTGGCAACCCTTACAAAATCAAACACTGGACAT
GATACATGCCTGCCCTTCTTGCTTACATGTGAAGTATAACCAAGTGCCAAATGCTTTTAT
AATTNACTAAGCAGCCCCCANCTCNCCCTGNTNAGAAACAGAAAGCTACTTGCAAGGCC
CCTACAAAGTGAGTGAGAGTGTGTGAGCTCCTGCTTGAANAGGTGAGACCCANATCATAG
TTCTACTTGTCTCTATGAAGTGGAATACANAANAAGAAGCAAATTGTAAGCATAAAA
TTGTCTATGTTTT

Sequence 4769

CCGCGGTGGCGGCCGAGGTACCTGGAAAATAACTTCTTTCTTTTCTCTAGATTTTCGAA
GAAGCAAATAAATCAAGAATAGAAACCTATATATAGGAGGTTGGGCCTCCTGCAAAGAAT
GAAGCACTTTTTGTAAATACAGGAGAGGCTACTTGGCTGCACTAATATGTGCTTTTTTG
GGAATCTTAATAGAAGTGTACCAAAGTTGAACTTTGGGAATGGGCTTGAATCATCCCT
GGGAGCATCTGTGCCGGGCAGTCAGGAAGTGAGTGCACCGCCTNCCACCCAGCCCCATTG
GGCCTCACACCCTCTTCATTCTTNTCCCCATGAGGCAGGCAAACACGGTCATGACCATT
TTGGGGGTTCACTTTCAACCATGGTCTTCTTGGCAGGGCATACTCTTTGGCTCCCAA
T

Sequence 4770

TGGCTGCCCAGACGTATTTGGCGTCGCAGTAGCCGACAATGGCGGCCTCCTGGCAGCAGC
CATCGCACATCAGGTTATCCACGTAGCTCTGCCAACCGGCCATCTTCGAGCCCTTCGCAC
TGCAGCGCGGACGGCGAGGAGCCCCCGGTACCTTTGGCCNGGTCTAGAACTANGTTGGA
TCCCCCGGGGCT

Sequence 4771

CTATANGGCGATTNGGAGCTCCCCGCGGTGGCGGCCGNCAGGTACCCGAGCCCCG
CTTACCCTGCCTTTNCATGTGGGTCANGATATGTGATCTCCAAGGACATCENNAAGTGGC
TGGCAAGCAACTNNGGGAGGTTAAAGACCTATCAGGGTGA

Sequence 4772

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAGCAACAGCAAAG
GAATCTCTCACTACATGAATACATGAGTATGGAATTATTGCAAGAAGCTGGTGTCTCCGT
TCCCAAAGGATATGTGGCAAAGTCACCAGATGAAGCTTATGCAATTGCCAAAAAATTAGG
TTCAAAGATGTCCGTGATAAAGGCCAGGTTTTAGCTGGTGGTAGGAGGAAAAGGAACAT
TTGAAAGTGGCCTCAAAGGAGGAGTGAAGATAGTTTTCTCTCAGAAAGCAAAAGCTG
TTTCTTCACAAATGATTGGGAAAAAATTGTTTACCAAGCAAACGGGAGAAAAGGGCAGAA
TATGCAATCAAGTATTGGTCTGTGAGCGAAAATATCCCAGGAGAGAATACTACTTTGCAA
TAACAATGGAAAGGTCATTTCAAGGTCCTGTATTAATAGGGA

Sequence 4773

GGGCGAATTGGANCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTCAGNCTTTCCANCTCCCGCTGTCTCTGTCTCCTCTTTGGCGCTTCA
CTACTTTCTCATAATCATTAGGAAACATAGGGTCATATTCGTCAGCTAAGGGAATCANAA
CTTCCCCCTTCAAAAAAACCCACTGGGAACAGGATCCTTCANCCAGCTGCTACATGCGGN
GGAGTGTCCACAATTTGCCGGTCATNTGAGGAGCCACCTCGCTTCAGGTCAATGACTGGG
GCGAGGACTGTACTGCGGCGGGTAGGCCTAGGATTGTGGGGGCAATGAATGAAGCNAACA
GATTTTCGTTCAATTTTGGTTCTCAGGGTTTGNTATAATTTTTTATTTTATGGG

Sequence 4774

CGCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACTTCCA
ACAGTAAGTGGAACACAGATATTCAAGTTGAGATAGCACTGGCCATGCAACCATTAAGA
AGTGAGAATGCTCAGTTACGAAGGCAGTTGAGAATTTTGAACCAGCAACTCAGAGAACAA
CAGAAAACCTCAAAAACCATCTGGTGTGTGGATTGCAACCTTGAATTGTTTTCTCTTCAG
TCATTGAATATGTCACTGCAAAATCAATTGGAGGAGTCACTAAAGAGCCAGGAATTACTG
CAGAGTAAAAATGAAGAGCTGTAAAAGTGATTGAAAATCAGAAAGATGAAAACAAAAA
TTTAATAGTATATTTAAAGACAAAGATCAAATATACTTGAAAATAAACAGCAATATGAT
NTTGAGATAACAAGAATAAAAATTGAATTGGAGGAAGCCCTAGTCAATGTGAAAAGCTCC

Sequence 4775

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACTTTNTTTTTTTTTTTATTTTTT

Table 1

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TTCTTTNCTTTNTTTTTTTNTTTTTNTTTTTTTTTTTTTTTTTTTTGTTCAAAATTCATCC
AATNTTTATTGAATCGGGAACGGNNGCAAACGTTGCCANAATCAAAAACCCACCCATCCN
GATCCTTTTTTTGGCTTCCCCCTTG

Sequence 4776

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGAGACTTCTCCGCCGCCTCCGCCGCA
GACGCCGCCGCGATGCGCTACGTGCGCTCCTACCTGCTGGCTGCCCTAGGGGGCAACTNC
TNCCCCAACGCCNANGNNNTTAAAAANAATTTNGANCAGNNNGGTTTCANGGCGGNCAA
CNACCGGNTAANNANGGTTNTNANNANNTNANTGGAAAAACATTGAAGACGTCATTGC
CCAGGGTATTGGCAAGCTTGCCAGTGTACAGGTGAAATGATATGTTACTGGTATTCGCTT
CAAAATCATCTGAGTGTGGGGTAATTGAGTACCTCGGCCGTTTTAAATAAGTGGANTCC
CCCGGCNTGANGAATTCANNNTAACTTNNTNATTCCCGNNCANCNTCAAGGGGGGCC
CGN

Sequence 4777

ATGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATATGATGGAGTCTTTCTC
TGTCGCCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTTAGAAACAGGGTTTCGCC
GTTTTGGCCAGGATGGTCTCAATCTCCTGACTTCATGATCCACCTCCTNGGCTCCAAAG
TGCTGGGATTACGGGCATGAGCCACCGCGCCCGGCCAGAATAAGTCCTAATTTTAACTC
TTCAGAGAGTGAAGGAATAACTCCAAATAGACTCCCAGAAGTTATGTTTCAGATAAGTAAA
CCATCATGCTTACATTACAGAAAGTTCTGCTTCTCAGGTAACCTTAAATGGAAA

Sequence 4778

CCGGGCAGGTACANGATCCCAGACTGGTCTTGAACAGACAGAANGATGTAAAGGATGGA
NAATACAGCCAGGTCCTAGCCAATGGTCTGGACAACAAGCTCCGCGANAGACCTGNAGCG
ACTGAAGANGATTTCGGCCCATANAGGNTGGTCACTTCTGGGGCCTTCGTGTCCGAGGCCA
GCACACCAAGACCACTGCTCGACGTGGCCNGCACCGTGGGTGTGTTCAAGAAGAAATAAN
TCTGTAGGCCTTGTCTGNTNATAAATAAGTTTATATCCCCANGNCANANAAGGNCACCTG
GAAAACGGNCCTTTTTTTTTTTNTNTNTTTTTTGCNCTCCTGCTGCTTCTTGNATGTGGT
ACCATTTNTGAAGNTTCTTNTACGGAATNCAACCCTGATTCNTTCACCNCTGGTCACCA
TGGTTGGCNCGGCACTACCATTTGNAAGTTGATTGGGCCNACNTTCAANTGGGTTGTCGNC
NCCCCCGAGTTCCTTGGNCGATTTANAACATAATGNATNCNCCGGTCTTGCAGGAANTNC
ATNTCAAACCTTANTNGATCCGCCCCCTCAAGGGGGGGC

Sequence 4779

CCGCGGTGGCGGCCCGCCGGGCAGGTACTGTGGCATGGCGCAGTGGGTGACAGATGGCC
ACATAGCGGTCAAAGCCATGGCCAGCAGCACTGTGGATTCCATGCCAGATAANGAGTGG
ATGGCAAACATCTGTAGCATGACAAGCATCAAACCTGGATGGAGTGGAAATTGAACCANAAG
ATGGCCAGCATTTTGGGCATGGATGAAGTGGAGATGANGATGTCAATGCCTGAAAGCATG
CAAAGAAATATATACATGGGCTCATGCAGGCTGTGCTCAGTCCGCACAATGTAGATGATT
GTCAAGTTACCTAGCACAGCAATANNGTAGAGGGAGCACAATGGGAAGGCCACCAGAACT
GAACCTCTTCTAAACCAGGGAGGCCTATTANGATGAAATATGTANCACTGGATTTCATTGC
CATTGGGATCCANCATCATGAAGAAGCTGAACTGTGACCAGCACCAGGCANGTAGANGCT
CAACCCGTNTGGAAAGAATGTGTGACCCCTTTTGTGAGTCTTTCTCCCCCGNGTACNT

Sequence 4780

CCGCGGTGGCGGCCGAGGTACGCGGGGGTGGCGCCATTTTGTCTCGGCAGCGGTGGCCG
TAGCTCCATCGCATTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTCATCAGGTAGATT
GGTTTTTGT

Sequence 4781

ACTATAGGGGCGAATTGGAGCTTACCGCGGTGGCGGCCCGGGCAAAGGAGAAAGAAGATC
CAGGCCCTCATGGTGCTGGGAACCTCAGTGGCANGCAGGCAGGCGGCAGGCAGAGCGCG
CTCTCCGGGCAGTCTGAAGGACCGCGGGAATGTCCCCGCGTACCTCGGCG

Sequence 4782

GGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGCCGGGCAGGTACCGGGCTCCTCACAGC
TCCACTAGGCACTGCCCCACTGGGGACTGTGTGGGGGCTCCGACCCACATTTCCCTTCT
GCACCTTCCTAGCAGACGTTCTCTATGAGGGCTNCACCTCTGCAGCAAACCTTATACTGAA
CATCAAGGCATACATCAAGGCATTTCCAT

Sequence 4783

CGCCCGGGCAGGACTTGGGACAGTTACAGGCATGCTGCTATTGCCATGATCTTCGGGAAG
CTGAAGTGATGAGCAGCANTGTGTGATTCTGAGGACACAGGGGGCTGGGGTCTAGGAGCT
ATCTCAGGTGGGCTCAGTCAGTGCCTCCTCCCTTTTGGTGCCTCCCTAGAAGTGCTGAGA

Table 1

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AGATGCAAAACCAAAGCTTTTACTCCAACATTGCTTANCCAAGCTAAGCACATGCATTC
CCTATGATTCAGCAATTCTGCTCCTAGCATGTATCCCAGAGAATTGTCCCATGGGTCCAT
AGGGGCATATAAGAATGGCCATTGCAGCAAAGTTCTGGTTGGGGTAGGGGGAGCTGAAAG
TCATCTGGTGTCCACAACCTGGAGGAATGGATGGATAAAATGGGATGGATGCACAAGTGGG
CANACAGATGGGTGAAAGGATGGTCANTCCTTACATTGGCCAAGNTTCCTTATTCTTAGG
CTAAGGATTAGCATCTNCAGGCCAAAAAGAAAACG

Sequence 4784

AGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTT
TTT
TTT
GGNNAANNAANNTTTTNAAAAAAANNTTTTNNAAAAANNAAAAAAANNTTTT
TTTNAANANAACNNNGGNNTTTTNTNTTTNGNNNNNGGGGTTTTTTTTTTAAAAAA
AAAAAANTNNNTAAAAAANGNCAAAAAATTTTTNTTTNCCNANAAAN
ANTTNGGGGNTTTAAANNNGGTNTNGNAAAAANTTTTTTTTTTTTTTAAAAAANG
GGAAAAAAGGNTTTNGGNAAAAAATTTTAAAAAATTTTNGNGGNAAAAA
ANAAAAANCNCCCCCNCANAAAAANTTTTCCCCCTNCNCCNGGGGNGGCCCCCCCC
CNGTTTTTCNATTTAAANAAANCCNNCCCCCNCNCAAAAAAANGGGGNNTT
TTTTTTTNAAAAAAANNNACNNNNCCNAAAAANNTTTTNGCCNCNCTNN
AAAAANTTTAAAAAATTTTTTTTTTCAAAAAANAATTTTTATTNTTTNCCCCCCC
CCCTNTNAAAAAANAAANACCCCCNGNGNNAAAAAAATTTTAANTTTTAAAACCCCN
AAGGGGGGGGCCNCCACNAATTTTTTTTTNTTTAAAAAANANANCCCCNTNAAAAA
AAAAAATAATNTTTATTATAAAAAATTTNCCCANAAAAA

Sequence 4785

NCCGGCAGGTACATTTTGTAAACTTNAAGATACTTACCTAGTAATNTAGTATAGAAN
TTAATTCTGAAAGCTGTGTCCACTAAAAGATTAACAGTGGTTATCTCTGGGTGATTTTTT
CTGTTCTTTTTTGTTCATCTGTCCATTTTTCCTAAAAACAGATTTCTTTAGTCATAAAA
TAATAAAATATAAAGTATTGGAAAACAGTGAATATTTGAATTTTCATTCATTTGAATAAGC
ATTCAAATGAACTGCCCAGTGAACCTATAAAGACAGTGGATATACTTAAATTCCTTGTTG
TGAGGACATAAAATGATAGGTAAAAGTTGCATTACCTCTGGGACTGGAAGCTGGAGGAGT
CAACTCGATGGTTATTACAGAGCCATTGCTGTAAGGGGACAGCCTTGACATCTGTGAAAT
GGGGATAAAATTAGCCTAGACATGTGGAGAAGATCAAATGAGGTATTGAGTGTGTGAGCT
GTGTTAGGCTGGCTCCTACTCTCTCCCCCTTGCACTAGCANAAACCAGTGCCAGTCAGATC
TTGGGAAGGGC

Sequence 4786

ACGATACACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCCGCCCGGGCAGGT
ACGCGGGGAGCTGCCCGCTGAGCCCGCCGGACGGACGCTCGTCTTCGCCCCGCATGGCCG
AGAGCGACTGGGACACGGTGACGGTGCTGCGCAAGAAGGGCCCTA

Sequence 4787

CCGCGGTGGCGGCCCGCCGGGCAGGTACAATTCATAGGGACGACCAATGAGGACAGGGAA
TGAACCCGGCTCTCCCCAGCCCTGATTTTTGCTACATATGGGGTCCCTTTTCATTCTTT
GCAAAAACACTGGGCTTTCTGAGAACACGGACGGTTCTTAGACATTTGTGAAATCTGTGT
AGAACCCGGGCTTTGCAGGGGAGATAATTTTCTCTCTGGAGGAAAGGTGGTGATTGAC
AGGCAGGGAGACGGTGACAAGGCTAGAGAAAGCCACGCTCGGCCTTCTCTGAACCAGGAT
GGAACGGCAGACCCCTGAAACGAAGCTTGTCCTTCAATCAGCCACTTCTGAGAACCC
CATCTAACTTCTACTGAAAAGAGGGCCTCCTCAGGAGCAGTCCAAGAGTTTCAAAGAT
AACGTGACAACTACCATCTAGAGGAAAGGTGCACCCTCAGCAGAGAAGCCCGAGAGCTT
AACTCTGGTCGTTTCCAGAGACAACCTGCTGGCTGTCTTGGGATGCGCCAGCCTTTGAG
AGGCACTACCCCATGAACTTCTGCCATNCACTGGACATGAACTGANGACACTGGGCTTC
AACACTGAGTTGTCATGAAAGGGACANGCTTTTGTCTAAGCCGGTTGAGGGCAACAACC
ACTTTTCTTCCCTT

Sequence 4788

CCGCGGTGGCGGCCCGCCATCGCCGTCGCTTGGCTTCTTCTGGACTCATCTGCGCCACTTG
TCCGCTTCACACTCCGCCGCCATCATGGTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGT
GACCCCAAGAAATGGCTCCTCCTCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAA
ATGTCAGAAAGATGAAAGAAAGATGAATTGCAGTGGAGAAAGANGGTCGTCAATACCTTA
ANAAGAAAAGGCAAGGAAGGGCTTGCTTGCAANCCTCAGCAAAAANAAGGGTGGGTCCGG
TTTTCCCAACNAAAAAANGGGTTTGCAAGTTTGCCACACCCAGCCCAAGAAAAGCCA

CCGGGCAGGTACATGCCCATTTATGGGTCTGGTGTGGTCTCTACAGAGGCAGCAAAGGGAA
AGGAGGAAGACTTTTTCCAGATCTCTCTACCTTAAAGCATGGAGCCAAGTAGCTTGTAT
TAGTCCTAGGATTCCTTTTCTCCTGCAAACTGGTGGTAGAAACAGTGGCATGCGGGGGA
TGGTACATCACAAAATACATTTTGATATCCCAAAGAAGCAAGACTTGCAAGTAGGCGTTT
TAAACATAACTAATCTACAGCTACAAAGTTCTACTCTTGATAGCATTTACCTTTTTTGGGG

Table 1

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AGTCTCCCAGGCTCCAAAGGATAAAAGCAGAGTAGAATCAGTATAACATATACACCAGGA
AGTCCGTATTGTAAAGGCTATAAAGATTTGCAGCACAGTGAGA

Sequence 4796

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTTCACAGT
ATAGATAAGAAAATTAAAGAACTTGCCCAAGGCCACAAAGCCACTAAGGGGTGAACCAT
GATTCAAACCTTAGGTTTGTCTGTCTTCAGAAGTTAACTTCCTAACCCTGAATCATATTT
CATCTGTTCCACTAAATACATTTTTCTGGGGCTTANCAATGCCAGTTTATTTACCTAAGA
TTATCAACAAACGAGTGGTAATACCAGGACTCAAACCTCAAGCCATCAACACTAAGTCAGT
GAGATCTTNATCACCTTACACTGCCCCACAATAACCCCAACAGTAACCCTGTATACAGTC
AGCTGTATTACAGGCCAGACACAAGGAGGAAAAAGGAGTAGGGAAAAGGC

Sequence 4797

CCGCGGTGGCGGCCGAGGTACGCGGGGGGAGCTGGCAGAGACCAGAGCTGCCACCGCTGC
TGCTTCCAGGAGTGTGCAGGTGGCAGCTGCCGCTGAGCCCGCGGCGGAGGATGGCGGGGC
TTGTTCCAGAAGGCTTGAGGGTCCCCGAGTGCACCGCCCTCCACCAATTTCTGGTTTTT
CCTGTTGGAGCCCAAGGAGCAAGGGCAGAATGAAGGAACATGATGTTTCTTACCGACAGT
TACTCATGACGTCTCCATCCAAGGACTGAAGGGGGGCATCCTTCTCCATCTAAGGAACTG
GGGGGCATCCTTCTTCCATCCAGTATTGGGGGGTCTTTCTCCTTCCATCCAGGACTTGG
GGGGTCATCCTTCTTCCATTCCAGGAACCTGAGGGGGTGTTCCTTTTCTGCGCNTTCTT
TGGATGGGCAAGTCTTTTCCCTTCAAT

Sequence 4798

CTCCTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTGTTCATTTANAAAGAAGATGAAAGTGAAACAGAATAGTCAGATTACTGAAAC
CAAATGTCATCTTAAGAAGCGACCTTGTCAGCTTAGCTAAATAGTAATTCCTTCCAGTCA
TATTCCTCAATCCTTATCTGCTTCATAGGTTATATTATCAATGACAAAAAGGGACTGTAA
CTCTGACATGGACAATGGGCTACAGAAAACACTAATTTTTTGATATTAAATATCTTGA
TGGAATTGGTTAAATATACTATAAACTTGGCTTATAATCAGGGATAAATCTTAACTTG
AGGGTCTTTAAATAACATTTTTTGGCACTTACCTTTCATCTTATATTACTAATGGATGGG
AATCTCAAACATATAAAAAAAGGAATTCAGTTT

Sequence 4799

CCGGGCAGGTACCTAACTGCCGAGATCCTGGAGCTGGCGGGCAACGCAGCCCCGCGACAAC
AAAAAGACCCGCATCATCCCGCGCCACTTGCACTGGCCATCCGCAACGACGAGGAGCTC
AACAAGCTGCTTGGTAAAGTTACCATCGCTCAGGGCGGTGTTCTGCCTAACATCCAGGCC
GTACTGGAATGCCATCAGCCAGCAGGCCCCCTGCCATCATCTATGACTTCTATCTGTGGCT
CACTGGAAGGAAACCCAGGCAAGGCCAAGATGGCTCAAAGAGCAACCAGCCACCTCTGCA
GCCTGCCACCTCCTGCTGGCAAGATTTGTTTTTGCATCCTGTGAAGAAGCCAAGGAGGCA
CCAGGGCATAAGTTCTACTCACTTATATCTGTCTGGGAACATAACGC

Sequence 4800

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATTTAAATTTATCATCATAAATTTATGTGCCC
AAACCCCTCCCACCCCATTTCCCTTGAACCAACTGAGCTATTTTCTGAATTAAATTTGA
ATAACGAAATAAATTTGAATAATCAAGAAAAATACACAGCTTGACAGAATGCCTTTTTT
CAAAAGCACACTTTCACAAGGGTTAATGGCCGCCTTGCCCTATTTTTCGAAGTTTTTCANG
TGGGTTAGTTTTGCTTTTGTCCAGGAAGTTCAANAGACTGGGAAATTGAAGTTTGTNATC
CGGATAGAAAGGTCANAATTTTAATACCTTAGGTTTCCCATTCACTTGGTTTACTGGGTA
AAAGCNTGGAAACTTCTACCTGCTCNTTTAAACCAAGATCCTT

Sequence 4801

CCGCGGTGGCGGCCCGCCCGGGCAGGTACACAATGGTTTATTAAAGGAATGTATGGCCAC
ATCAACCTAGCAAGGATTCTACTGGTAAACCTTCCATATGGCCAAAGGAAAAACAAGCAGG
AGTTGAGTGGCTGGGGTGGGGTGCAGGCAATGGAGAGAGGGCAGAAGGGTGTAGAAGCTG
AAGGGGTCTAGAAGCTTACTCCTGAGTTTTCTTCTTCTGTCTTCAAATCTTTTACTT
CTTTATGGGCCCAAAGACCCAGCTTGTTTTTATAAGGCTTGGGAAGAATGCCACCTCTTN
TAGAACTGCTCCGAGAACAAGCCCANGAAGACCAGGGGGGAAGGGAGGGGAAGAAAGGG
GATACCTGTNGGAAAAGGGATGGCGGGGNAAAACATTTTAGAAGCCTAGAAGCCACTACC
TGGGGCCAATGCTAAAGGTTTCTGTCCCTTAAGCCCTAAAAAAGCC

Sequence 4802

CCGCGGTGGCGGCCGAGGTACTTTGCTTTAGAAAATATCTTAGTATTATTACTTTTGT
TCCAGTAACCTTGCTAAGCTTCTGAAGAACTTTTCTCTCATGTTTTCTGGTTCAATTTCT
GCTTCATTAGTATCTAAGCTACTGAGGTTATCACCACCCATGCTTTGAGACATCATGGAA

Table 1

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AAACCACAAAAAATGACCCATTATCTTGAAGTGGGTGTGGCTCTGGAGATTCACATTCCA
TTCTATCTTCCATAGACTGAAGCTGGGTGCCTAAAGACTCCTTTGCAGAATCCAGAGGGA
TCATTTCTTCCATAGAACTTCCTGCCCATATGTGCCCTGTGAGACCTGCTGTCTAGGTT
CATCAAGCTCCCTCTCCAAATCTTCCAGCAAAAGTCACCACCTCTTCTCCACTCTCAG

Sequence 4803

CCGCGGTGGCGGCCGAGGTACACGAGGCCGGTGGGCTCCCTGACATCCCTTCCAGGCAAC
CTGAAAGTACTGAAATAGCTTATGGCCCTGTGCCAGGGACCTTGGCCCAAGCTGCTGACC
TCCAGGGTGGGGAGGGAGCTACCCCCAGGAGAAGAGTCACTCAGACAGCAGTATGAGCAA
GCCAGCCAGCAGCTCCGTGCCTGCACCCAGCTCAGGGGAATCCCAGGGGGTTCAGATGCC
CAGGAAGGAAAAGGGGACAGCGCTACTGCTATGGAATGAGACCACCACTTCTCCTGTTGT
CCTTCCCAGCTTCTCCCCAACCTCCCCTTTTCCCTAGTTTATAAGACAGGAGAAAAGGGA
GAAAGCAAAAAGCTGGAAAGAAACAAGAAGGTAAGATAAATAGCTAGACGACCTTGGCCG
C

Sequence 4804

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTTTGCCTGTG
GGCCTTTTTTCCCCCTAGACATGGTGGCATAACAATAAGTGTGTAGGAAAAGCCAGAAGT
GCCACAAAGTTAATGTCTTGGAAGCATCTGTATTCCAATGTTAAGCAAGGATTTGGTGGA
TGAAAAGCACAGTTTCTTTTCCCCCTTGATGGGAATAACTCTTAGTTATATCTGACACTGT
CTTCCAGACTTTCCAGCAAACTGAGCTCCAGTTGCCCAGATGGGTAAACCAGCTTGAAA
ATTCATACTTTATTCCTTCCCTGCTCTGTCTACTTTACTACTCCATTCCCAGTATCTAAT
AATTTGATGATTTTTTAACCTTCCAGTATAAACTCTTTTACAAGAAAGCCTTGCCTCAGGGA
TCGGTTTTTTAGAAGTGCCAAGCCAAGCCAGGTTG

Sequence 4805

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGGATATGGGAGGAGCTCAGG
GTTGTTGGCTAAGATGTAATTTTAAGGAAACACTTTATATTTTCATACCAAGTAAGAATTT
CAATGGCAATGAATATTACCACATAGCTGTATACTGTAACCTCANGGATTCTGTCAGATGA
GTGCAAAACATTACCGNGCTGTAACCATNCAAGAGTCCCAGGGTCACATTTGGCAGCNCAA
AAAGTACCCTGCCCCGGGGCGGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAG
GGANTTNCGATATTCAAGGCTTATCGATANCCCGNCGACCCTCGTAGGGGGGGGGGGCCC
CGGNTTCCCCANGCCTTNTTTGGTTCC

Sequence 4806

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGGATATGGGAGGAGCTCAGG
GCTTTGAACTCGCTGAGGGCCTGCACCGGGTTCACGTGCTTCTTCTGAGATGCCCGNTTA
ATCTTGGNCTGTGNCTCATCCTGTTTCTCTCTTNAACCAATGGCTTTTTTCTCTGGTGCC
TTCATCTTCCATGANACCCCCGCCATACCTTGGCCCGCTCTAGAACTAGTGGGATCCCC
CGGGCNTGCANGAATTGATATCAAGGCTTATCTGATACCGTCNACCNTCGAGGGGGGGC
CNGGTACCCAGCNTTT

Sequence 4807

ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCAA
GGATTTTCTATTGCAGCAGACCATGCTACGAGTGAAGGATCCTAANAAGTCACTGGATTT
TTATACTAGAGTTCTTGGAATGACGCTAATCCAAAAATGTGATTTTCCCATTATGAAAGT
TTTCACTTTTACTTTNTTGGCTTANTGAAGGATAAAAAATGACATTCCCTTAAAGAAAAA
AGATGAAAAAATAGCCTGGGCGCTCTCCAGAAAAGCTACACTTGAGCTGACACACAATT
GGGGCACTGAAGATGATTGAGACCCAGAGTTACCACAATGGCAATTCAAACCCTTGAGGT
TTCGGTCATATTTGGAATTTGNTGGTTCCCTGATGGTATACAGTGCTTTGGTAAAAAA

Sequence 4808

TANCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTCGANAGATANCTTGTCTATTGGCCAGGATGGAGTGCAGTGGT
GCGATCTCAGCTCACTGCAACCTCCNCCTCCTGGGTTNAAGCGATTNTTNTNCTTTANCC
TCCCTAGTAGACTGGGATTACAGGCNCACCCACCTTGCTCGGNTGATTTTTGNATTTTN
AAGTAAANAACANGGTTTTGGTTGTTGCCCNTGCTGGTCTTNAACNCCTNANCCNAANTN
AACCGNCTGCCNTNNGNCTTCCAAAAANTTTTGGGGATTNNAAGGGCGTTGNGCCANCTT
TAACCTGGNCCANNCTTTTTNAAANTTTTTTAAANNTNTNNCCNAAAANNCCNTTTTN
NTTTGGGNCCCNAAAAAGGGGAAANNANANNNGGNGGAAAAANCCANCCCCCTATTAAAN
TNTTTTTTCAAAAAGGGGCCCANAAANTTTTTTTTTTTT

Sequence 4809

ATACGACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCCGGGCAGGTACG

Table 1

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CGGGGTCCAGAGTGCTTGCTACCGTGTTGCGAGTCTCGCTGCCTCCCTCCCGCGGGGGTT
TCTCCTCTTTTTGAAAATTCCGTCTGTGGGATTTTTAGACATTTTTCGACATCAGGGTAT
TTGTTCCACCTTGGCCAANGCCTTCTNNGAAAAAATTNNGTCCCCCTGTNTGGAAAGGN
ACGGGANCCCGGACTTGGACAATNGNTCACTTCAANTACCTTCGGGCCGNTNTTATAAA
CTTAGTTTGGNATTCCCCCNGGGCCTTCAAGGGAAATTTCTANNATCAAAGCCTTTAA
TTCGGAANTACCCCGGTCNNAACCTTNAANGGGGGGGG

Sequence 4810

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAANAANCAATTTTATTAAAGG
AAAATTTTNCAGGTTNAAGGTTTGCAGGNAAAATTTNNAGGNGAAAAGGTTTANTTTN
ANCAATNTNNTTTCGGNCTTNGCTTTTAANTNANNGTNGAAAANTCNCNGGNAANCCA
AANTNANAANCCACNNGGGGGCNNCTTNTNTNAANTNTTTTCCANANATNGCTNNGNC
CCCAANTTAAAANAACCCCNNTGTNACCTTNCCTCGGGCGGGCCCGTTTANAAAAAN
ANNGGANCCCCGGGCNTGNAAGAAAAATTCNATATNAAGCCTTATTTAANAACCCCN
NAAACCTNTNAGGGGGGGGGGCC

Sequence 4811

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAAAGACGAATCA
TGAAAAAGAAAAAACTTTATTTCAAACAGGTTCAAGTATATGTGTGTGCTACAGCA
AAGGCTGGTTGTGGCAAAGTTTCATTTCAAACGTATGATGTGGGCTGGGCAAGGTGGCT
CACGCCTGTAATCCCAGCACTTTNTGAGGGCCGAGGTGGGCTGATCACCTGAGGGTCAG
GAGAGACCGGCCTAGCCAACATGCTGAAACCCCGTCTCTACTAATAACAAAAATTAGC
CAAGTGTGGTGGCGCGCACCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAGGAGAATCG
CTTGAACCCGGGGGGGCAAGTAGGTTGCCAGAATCACGCCACTGCACTCCAGCCTGGGGT
GGACAGAGCNCAGGACTCAAAAACCAAAACAAAATAAAAACAAAACAAA

Sequence 4812

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGGAAAAAC
CTGTCTTGGGCAGGCTGGGGGGGATTCTTCTGGTGAGTCCCCAGCCCACCCTGAGTAACA
CAACCAGATAACAGTCATTTTACACCCAGGTGCACATGAGCACAGCACACAAACACACAC
ACACACACTNACACACACACACACACAANTTGGCTTGAGCTCTCTTCCAGGGGAGGGT
CCTGGGTCCAGTCACAGTATGAGGTCCTCTCTCTCTGAATATCATCCCAGTAGTGGCAG
CAGAGAGTACACTCAGTGATCTAAACACCACAATATCCAACATACACAAACCTCAGGGA
AGGGTTAAGTAAACACACACAAGGATTGGGAATCATTGGTGCTCTTTGCTCCTTGAATGG
GAATGGTTCCACAGAAAAAGCCACAGGGGATTACAGNNACAACCATAANG

Sequence 4813

GTGATGGGGCAGACATGGTGGGTCCTGACGGCCTTGTCTTCACCAAGTGCTCCTAACTCT
CAGCAAATTTGGGGTTCATGACCGTCGTGGTGGCGCTCTTGAAGGGGATTATCATTGT
TCCACTGGGACTTGAGCTTNTCCTTCTCAAAGCGCCTGTACCTNNGCCGCTTCTAGAACT
AGTGGGATCCCCCGGGCTTGCAGGGAAT

Sequence 4814

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGATGATAGACACAATGAAATCCACCCCC
AAAGAGGACTACTTCGGATACAATCACAGCAACCCTGGCCTTGGCCCTGCCCTGTCCCTG
CCATGCAACTTCACAACTGAGCTGGCCTAGACCCNTGGGAGGCCTNCAAGTCCCTTAAGC
GGTTTCCAGTTTTGTGGAAAGTCCCCAGGNCAANTTCNCTGTTGTTCCACATTGATCCGA
AACNCCCANNCACGTGGGNNCNAGNTATCAATCAAGTCTTCTTCTTTACAGTNGCTACAC
AACACNGCTCTCNAAGCTCCAGCTGTTANTNTTCTTGGGCCCTTGNGAACTTATGNAAA
GAACNCTTANGTTGNCTCTCCAAGGAACCTTCAA

Sequence 4815

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGTGCAATGACAGTC
ACAATCAATTCTCAGCGCACCCATCGCCACGGATACGATACATTAGATATTCTGAACTT
GCTCATCTTAGGACTTCACATTGGTGTCAAGTGTCTTGACAAATCACGTGTATCAGGAA
T

Sequence 4816

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTTTNAATGAACAAATNTTTATTTATCTTTTATAACAAGTAAGGCAATGTT
GCTTAAAGGAAGACAAACAAACNTAAAAGATTCCGTTGACAATGCATTTTTTTCATNTGTT
CGGCNCAATGCTTTTGTGATAANGNAAATNTGACNANCNAACTTTTCCAGGACATTTT
ANTNTTCGGNNGCAGNCACTTTANGGGCANAATGACTGGCCGCTTATAGATGAGGCCAAA

Table 1

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GCNCCAGGTAGGNGGAAGGTTCTTGTNTCGGTTACGAACCCCGACAGCGCNCCAACAGAC
AACACGAGGCAGTGGGGGGAGNAACATTNCCTGTTTAAATGAGCNCNCTGGGTGCAAGGG
CNTTGCTGAGGCTTGAAAAATGGGCNTTNAGCC

Sequence 4817

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTCGGCCTCCCAAAGT
GCTGGGATTACGGGCACAAGCCACTGCACCCAGCCACAAACAGATCGCAGATCCAGGTTT
CTCAAACCTGGAGCATCTGCTTAATTTTCCATAAAATCAGTCTTATTCTTTCTGACAGCT
CTGAGACTCCTCCGGCCACGACTAGGTGCTTGTCTTGGAGGAAACGGTGGAGGACGGCCG
CACAAAACCAATCTACCTGATGAAAACCTCCGTTCCCTTCTCGCCAGAAACATAAAATGC
GATGGAGCTACGACCACCGCTGCCGAGACAAAATGGCGCCGACCCCCGCGTACCTCGGCC
GCTCTAGAAGTAGTTGGATCCCCCGGGCTGCAGGGAATTCGATATCAAGCCTTATCCGAT
TACCCGTCCGACCTTCGAGGGGGGGGGCCCCGGGTACCCAAGCTTTTGGTTTCCC

Sequence 4818

CCGCGGTGGCGGCCGAGGTACGAAGCCATCGACAGCAGAGATGGAGCATCTTGTGCAGAG
TTGGTGTCTTTTAAACATCCTCATGTTGCAAACCCACGACTTCAAATGGCCTCTCCAGAG
GAGAAGTGTCAACAAGTCTTGGAACCCCCCTTATGATGAAATGTTTTGCAGCTCATTNNAN
GGTGNACTTAATNCAGTTGGGGGAATCATGACTTCATTAGAAGGGCATTACAATGTTGCC
NAGACCCGTNAATAAGTTCCCAAATCAATTTCTTTTGCCGAAGCCATTTTCCCAGGGCCC
CANCNAAAAGGAAAGAAAAAACCTGGGGGGCCTTCTGCCCTGTTCCATTGTTATTTGCC
ANGTTANGCCGGCCTTTTGGANCCCTTTCCNAAGGTGGTTTTTGGCCCCAAATTAAATTGGC
CNANNATTCCAAACCANGTTTGGGGTTAAAAAAGNAAANAGGGGGAAAAAAAAGGCNA
AAAAGGTTTGGGGGGGGAACNATTGGTTTTTGGGAAAAAAAAGGCCAANGCCCAGTAAA
NGTTTTACCTTTGGATTTGAAAGNCTTTGTTTTTTCCC

Sequence 4819

AACGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGAGA
GGGTCTGCGTTTCTTCTAGAGCTCCTACCTCAGTGGTGTGCACAGAGTTGGAGACACCTG
AGGGCTGGTCCACGTCTCACCTTTGCCATACGGGTCAATTTCTTGATCAAATATATGACTG
GGGTCTGGTTTACTCCCGCCACCGTTTCTTTTAAAGTNTTTCTTAACATTGAAATCC
ACAAAAGCNGGAAACAATGAACCATTCTTGCACTTTACAGAAATCATTGTCCTTAGCTTT
AGAGGTTGTTAATTTCTTGTTTTTAACATGAACAGAATGTGTGGTTNTGAAGGTGTGTNG
GGGGGTCTCAAGAAAATTGTCCCTTTT

Sequence 4820

CGACTCACTATATNGNGCTCCACCGCGGTGGCGGCCCGAGGTACCTGCCCACAGCCTTGG
TCCCTGGGGGCTAGACTGCTCAACTGTGGAGCAATTCATTATACTGAAAATGTGCTTGTT
GTTGAAAATTTGTCTGCATGTTAATGCCTCACCCCAAACCCTTTTCTCTCTCACTCTCT
GCTCACTTCAGATTGACTTTCAATAGTTTTTCTAAGACCTTTGAACTGAATGTTCTCTTC
AGCCAAAACCTTGCGGACTTCCACAGAAAAGTCTGACCACTGAGAAGAAGGAGAGCAGAGA
TTTAACCCTTTGTAAGGCCCCATTTGGATCCAGGTCTGCTTTCTCATGTGTGAGTCAGGG
AGGAGCTGGAGCCAGAGGAGAAGAAAATGATAGCTTGGCTGTTCTCCTGCTTAGGACACT
GACTGAATAGTTAACTCTCACTGCCACTACCTTTTCCACCTTTAAAGACCTGAATGA
AGTTTTCTGCCAAACTCCGTGAAGCCACAAGCACCTTATGTCCTCCTTCAGTGTTTTGTG
GCCTG

Sequence 4821

TCAACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCCA
GCACATCTCAGAGAGATGGAGGCAAGCTGGGTTCTGATGATTTCCAGCTAATACAGGTC
CTTCCTCCTGCATGCAGGCGCCCCGTAACGCTTTATAACAGACGCCTCTAGACTTCTGTG
GGGGTAAAGTGAAGGACCCAAAGCGACACAAGTAGTGTCTGTTCACTTCCACTTTCAA
AGCTAACTACTAGCTGTTCAAATATACTCCATACAGCTTTTCAGCAAATCAAAGTGTTTAC
CTCTCCCACACCAAGGGAAGAAAAGATGCAGACTGCCTTTAAAGCACCTGTCAGCAAGGC
GAGGGTTTTTAAAGATCAGCCTTGAGAAATCAAAGCAGCAGAGAAGTGTCATTACTCCAGT
GCTCTCCCTTCCCGTTTCGTGGGTACACAGAGACAGGCACCATCCCCAGCGCTTTGCA

Sequence 4822

AGGTACATGCTGCTTGAATTTTCATCATCATCCTCCACTCCTTCCACCTCCAAGAAAAA
AAAGCGTGCAGGAAGTAGCATTTTCAGATCCTTCTCCACCACCTCTGCTTCCCTTCTCCCT
TCTTTTCTCCTTGCAGCATTTCCCTTTAGTACCGCGGGGAGGGCATTGAGGCAGCCAGCG
CAGGGGCTTCTGCTGAGGGGGCAGGGCGGAGCTTGAAGGAAATCCGCAGATAAAGTTTTT
TTCTCTTTGAAAGATAGAGATTAATACTACTTAAAAAATATAGTCAATAGGTTACT

Table 1

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AAGATATTGCTTAGCCGTTAAGTTTTTAACGTAAATTTTAATAGCTTAAGATTTTAAGAG
AA

Sequence 4823

CCGCGGTGGCGGCCGAGCCTCCGCTCAGGCTGGCAGCCCCAGCTCTGCACGGGGAAGGCA
ATGTTCTGTCCTTCAGCAGAAGTCATACAAAATAAGGATCCAAAGTGAACCTCAAGAAAA
AAAAACAAAACAAAATAAACCCCAACCCCTACAGTGGCCCATTCCTGCAGATACGGATTC
GCGAAAGGAAAAATCAGAGGGAAGAGGCTAAAATCCCTCAGTCTACCCCGCGTACGCGGG
ACCCACTCCCTCTTAGCCAATATTGTGCCTATTGCCATACTAGTCTTTGCCGCCTGCGAA
GCAGCGGTGGGCCTAGCCCTACTAGTCTCAATCTCCAACACATATGGCCTAGACTACGTA
CCTGCCCCG

Sequence 4824

CCGCGGTGGCGGCCGAGGTACATGCAAAATCAACCTTACATCTCAACCAAATTTTGGGAG
ATCAGGGACTCTCTGCAGGGGAGAAGCTCCACAACCTCAGCAAATTATCCTATTGGTTTG
GGCAATTAAACAGCCCAGGTTGGTATCAAGCAATGAGATTTATCAAAGGTCAGGACCAC
CTTTGTAATGTCTTCTCTTTTTTATCTTTATTCGCATAGTCTGTTTTGTCAAGAAAGTA
GGAGTGCAACACCTGCTTTTTTCTGTTTTCCATTTGCTTGAAATATTTTTCTCCATTCTT
TTATTTTGAGCCTATGTATGCCACCGCATGTGAGATGGGTTTCTTGAAGACAGCATACTC
CAGTGGGTCTTGGTTCTTTATCCAGCTTGCCCCATGTCTTTCAATGGGAGCATTTAGCCC
ATTTTCCCCGCGGTACCTTGCCCCGGCGGCC

Sequence 4825

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACTCNATTATTNNNT
TTNNCTTTTTGTTTTGGAGGTTGAATGCAGGGTTTTATTGAGTGGTGGAGGTGGTTCTCT
GAAGGATGGATGCANAGCTGGAAGCGGGGATGGCACGGGAAGATAATCTTCCTGCTGGGT
GGCAAACCTCTCCGACCACCCTCGGCTGAACTCCTCTCGGNGTTCAAATGTTCTCTTCT
CTCTTTCTCTGCTGTATCGTTTCACCATTTCATCTGCTTGTCTGGGATGGTGAAGACAAC
GTTTGCTCATTGCTTGGCGATAGGTGATTGTCTCGCCGCTCAGCTATAGGCGATGGTCT
CACCCTCGGTGATAGGCNATTGTCCCATCTAGGTCGCCAAAATGTGTCTGGAATTGGTG
GG

Sequence 4826

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGTCCTCTTAATCATGGGCCTCAGTTC
CCGAAAACCAACAAAATAGAACCGCGGTCTTATTCATTATTCCTAGCTGCGGTATCCAG
GCGGCTCGGGCCTGCTTTGAACACTCTAATTTTTTCAAAGTAAACGCTTCGGGCCCCGCG
GGACACTCCCGCGTACCT

Sequence 4827

ACTCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTGGAATCCATG
GCAGTTTTATGGAGGCCAAATATATCAGATGAATAGGCTAATTTCCCTGAGTTGCTGGCC
TTATTAGTCCCTACTCTGTTGCCCCCTGGTTACCTAATGCATGTTCAAAGGTATAGTTT
TCATCACCTGCTTGATCTTGATTTTCAGACAGCATCAAATCAGTTGCAAAACAAATCCAA
GCTAAAATTTTGAGTGTATGATTAATTTACTATAGCATGTAATTATGCAGTATTTTATTT
TTTGTTTTTTATTTTTTTTGGAGACAAGGGGTCTCGCTCCATTGCCAGGCAGAGGTTGCA
GTGAGCTGAGATCACACCCTTGCACTCCAGCCTGGGTGACCAGAAGCGAGGACCCCTT
GTTTCAAAAAAATAAGAAATTAAAAAGTTGAGTCTTCATATTCAAATTTAGTA

Sequence 4828

CCGGGCAGGTACAATACTGAGGCAGCATACTCTGGTCCAGCCCTTCTATTTGTTTCAGCT
TCTCACATACTGCATCCACATTCAGTGAATTCAGTAATACCACTGGGCCTGGGGCTGGGC
CTGACCCTAGGCCATTGTTCTGATCTCTGGGCAAACTCGTTTTTACTGATGGACGTTGAA
GATGAAGATGTTGGGAGCCGCCAGGGTAATACCTTGGCGTGTAAGGTATAGGGCAAAG
ATGGCCTGTTGTAGAAGGGATGCTGAGGGCCCGTCATGCCGCTGTAATAGCTGCTGTGAG
GCTGTGGTGACACCACTCCACCTGCGAAGGGCCCATTTGAAGGACGTGGAAGAGCACACGG
ATGGGGGCTGGCTGTTACCTCGGC

Sequence 4829

TACGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGGACGGG
GAATCAGGGTTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGC
AGCAGGCGCGCAAATTACCCACTCCCGACCCGGGGAGGTAGTGACGAAAAAAAAAAAAA
AAAAAAGTNCCTGCCCCG

Sequence 4830

CCGCGGTGGCGGCCCGCCGGGCAGGTACAAGCCTTGAACATCGTCCTGCTTCCCAGTGGG

Table 1

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TTCAGACCTCACCTTTCAGGGAGCGACCTGGGCAAAGACAGAGAAGCTCCCAGAAGGAGA
GATTGATCCGTGTCTGTTTGTAGGACGGAGAAACCGCTTGGGTAACCTTGTTCAAGATATG
ATGCATGTTGCTTTCTAAGAAAGCCCTGTATTTTGTGATTGCCTTTTTTTTTTTAAGATG
CTTTCATTTTGCCAAAATAAAACAGATAATGTGGATGGTTTAAGGGTTATAGTATTATAG
TTTAAATAATAACAACAAAATTCTTCCCAGGAACCTCTGCTGGAAGGTAAATTAAAATACT
TGTTTTTCCATTGGTAAAA

Sequence 4831

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCACTGTTCCAGCTTCC
AGCCCAATCCTAGCAGAATGAATGCATTTTAAAATCAGTCCACATTCACATGTGCTGAGA
AGGTTGTTAGTGGTCCCTCATCTGGGCAAAGCAGACCCAAGATGGTGCTGAGTGCAGAGT
GCAGAGCATTCTTGTGCTCTCCTCTCATGGGTGGGAACCTATCTGGGCTTTGCGCCCTGGT
CCAGTGCTACGTATCAACCCCCCTCAACACGCCTGTGGCTCTGACACGGGGGGATGAATTA
ACTTGCCTCTGTTCAAATATACAGACTTGGTGAGGCTGTCTTTTGTAGTACCTGCCCCG

Sequence 4832

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTGATTCTGT
CTGTGTCATAATTACACATTTACTTGAACACAGCTATCCTTTATCTTGTGCTTTCTTTAA
TAGAAAAATGAACAGAACTGAATGCAGTTAAATTTTTTATTTTGTAGTGGTTGTGAAGTT
ACTTTTACTGGAGAAATAAAAAATATGTTAAACTTGATTGACTTTTTTAAGATAAATTGTTA
ACACTTTTGCAGGATTAGAATTAATATGAAGTATCTCTTTAACATTATTGTATATATTAC
CTACTGCAAACCTATCTGTTCTGTTTCTTTGTGATTTAAAGAAAAAATAGGCCGGGCATT
GTGGCTCACGCCTATAATCCCAGCANTTTTGGGAGGCCGAGGCGGGCCGGATCACAAGGT
CAGGGAGTTCGAGACCAAGCCTGACCAAATATGGATGAAACCCC

Sequence 4833

AGGCCGAGGTACGCGGGGGTTCGGCGCCATTTTGTCTCGGCAGCGGTGGCCGTAGCTCCAT
CGCATTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTCATCAGGTAGATTGGTTTGT
GCGGCCGCTCTANAACCTAGTNGGATC

Sequence 4834

CCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGTTTTACAGTGTGTTGCTGTTGGAA
GCCCTATTCCTCACTACCAGTGGTTCAAAAATGAATTACCATTAAACACATGAGACCAAAA
AGCTATACATGGTGCCTTATGTGGATTTGGAACACCAAGGAACCTACTGGTGTCATGTAT
ATAATGATCGAGACAGTCAAGATAGCANNGAAGGTAGAANTCATCATAGGAAGAACAGAT
GAGGCAGTGGAGTGCACCTGAANNATGAATTAAATAATCTTGNTCATTGCTTGNTAATAC
AAGGAGCNAACAACCTGGACCAAATNTTNGCNAAGAANAACGTGTGCCCTTTTGTATA
GGAAAATATTGAATTTACCGGGGAGGCACCCCA

Sequence 4835

GTGGTAACAACGCAGACTACGCGGGCAGCTAGAGCAGTGATCCATCATGGAGTTATTCGA
ATTTATACAAGCCCTGGCCGGCTGCAGTGGCACACACCTGTAACCCACCACCTTGGGAG
GCCAAGGCAGGCAGATCACTTGAGTTCAGGAGTTTGAGACCAGCCTGGCCAACATGGGTG
AAACCCCATCTCTACTAAAAAATACAAAAATTAAGCTTGGGGCCAAGGTGGCANGTGCCT
GCAATNCCCAGCTNCTTCNGGGGAAGGCTTGANGCAGGGAGAAATCACTTTGAACCTGGG
GTAGGGCNGGATTGTTGCNANTNGAAGCCCAAAGNATTTGCACCCCACTTACCANTTNCC
ANGCCCTTGGGGNTAACCANGAAGCCAAAGGACTTCTTGTNCTTCAAAAAAAAAAAGGG
GGAT

Sequence 4836

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGAGTTTTTG
ATTTAAGTTGCAGTTATAGCCAATTTAGGCTAATGCTTGGTTTTGGAGCTTTTATACACA
ACGTTTTTGTAGGCATCACAGTTTTTGCAACCTCTGCTCCAAAGAGAAAAATAGAATGAG
TTTTCTTTCTTTTTTTTTTTGGAGTCAGAGTCTCGCTCTCTTGTCCAGGCTGGAGTGCAAT
AGCGCGATCTGGGCTCACTGCAACCTCCGCCTCCCTGGTTCAAGCAATTCTCCTGCCTTG
CCTCCTGAGTAGCTGGGATTACAGGCGTGTGTCACCACGCTCGGCTAATTTTTGTATTTT
TAGTAGAGACAGGGTTTCACCATGTCAAGCTGGTCTTGGAACCTGACGTCGTGATCCAC
CCGCCTTGGCCTCCCAAAGTACCTGCCCGGGGCCG

Sequence 4837

CCGGGCAGGTACCTGCAGTCAGATGATGAGATGGAGCTGGAGGAGACAGAACCGCCCCTG
GAGCCTGAGGATGCCCTATCTGACGCCGAGTTTGAGGGGGAGGGTGACTACGAGGAGGGC
ATGTATGCTGACTGGTGGCAAGGAGCNCGGAATTGCCAAGNGGTGACGAGGCCGAGGCTT
GAGCCANAGCCCTTGAACCTNGTCAATTGAGTAATGGNGTGACTACCNCCTACNACCCCTC

Table 1

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AAAGTCTTGGGTAAGCNCTGGGTGCNCGATGGGCTCCACNCCTTCACNCAAGTCCTGGG
GGCAAGGCAANACAAAGGAACTTAATTTTAATTTANAAAAAACCTTAAAGNNATGGGGG
CCCCAAGAGGTGTCCGNTGNGCCTTCACAACTCTNGTTANAATTCNCNCAGTCCATTTT
TTTGGTGGGANGNGNCCCANNGGGGTGGGGTTG

Sequence 4838

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGAATGAACAAATATTTATTTATCTTTT
ATAACAAGTAAGGCAATGTTNCTTAAAGGNCAGGACATAACAAACNATANAGAAGNATTT
CGCGTNTNACAAATGNCATTTCTTTTATTCTGGTTCGCGCACCAANTGCCTNTTTTGTTT

Sequence 4839

GGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATTAATTTATTTGTAAATACTAAATGTT
TCCTTTTTTTCATTACTCATATATTTTTTTCTTGCCTTACTACACTGCCTAGTAAAATATA
TAAAATATGTGCTTCACGGAAGGGGACTTTGATTAAGGACATGCCTCCTTCAGAGCTTT
TTCTTTTCCCCCTAGTATTTCCAACCTTGGGGATGTTTGGCATCGACGAATTTACTGCAGT
GATTAACCTCCTCAGGCCTGCATTTTGGCGGTGGGAGGTTCCGACCTGTGCTGAAGCT
CACTGAGGATGAAGAGGGAAATGCCAACTGCAGCAGCGCCAGCTCATAACAGTCACAAT
GTCAAGTGACAGTCGAGTGGTTGATGACGAACTGGCAACCAGGTTTCTTAAAGTTTTAA
A

Sequence 4840

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATGTGTGCGGAACTC
AAATCGGCATTTAGATAGATCCAGTGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGT
GCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTTGCTGTAATTGCACC
AGTTTTTAAAGCCTCTGGACAGAGCAGTATTTTCGTTTAAAACTTTGTTTTTCTTAAAGCT
TACAGTGGTTTGGCTAATTCTCCTCCCCTTTTTACAAGACGGGGCCGAGGGTGGACACT
GGTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGG
AGAAATTAGGGGCTGATTTTTTTAACTGTGTNAGATATTAACCAGCCGCCCTGTTATAAA
ATCAGGAAAATCCAAACAGCGAT

Sequence 4841

CCGGGCAGGTACCTAACAAACCCACAGGTCCTAAACTACCAAACCTGCATTAAAAATTTT
GGTTGGGGCGACCTCGGAGCAGAACCCAACCTCCGAGCAGTACGGCCATCTTCCAGCTGC
TTGCCTGCAAAGATGAGCCTCTGCTGGTCGGGGGAATGCCTTCTTATCCTGGATCTTG
GCCTTCACATTTTCGATGGTGTCACTGGGCTCCACTTCCAGGGTGATGGTCTTGCCGGTC
AGGGTCTTCACGAAGATCTGCATACCACCTCTCAGACGCAGGACCAGGTGCAGGGTCGAC
TCCTTCTNGGATGTTGTAGTCAGAAAGAGTACCCTN

Sequence 4842

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT
TGTTTGTTTGTTTTTTTTGTTTTTTGAGACAAGGTCTCACTCCGTTGCTCAGGCTAGAATGA
AGTGGAGCAATCACGGCTCACTGCACCTCAGTCTCCTGGGCTCAAGCAATCCTCCCGTGT
AAGCTGGGCCTACAGGCATGCACCACTAATTTGTTTGACTTTTAGTAAAGACAGGGTTTC
ACCACATTTGTGCAGGTTGGTCTCAAACTCCTGAGCTCAAGTGACCCACCTGCCTAGGCC
TCCCAAAGTGCAGAACCAGATTCTTAAGTCCACAGACTCTTGTATTATGTAATTTATAT
ACAGGAACACAAAGCACTTGATTTGCTTAAGTGTACAGCCAAATTTGCGTTCTGGT
TTTGGCCATAAGCTCCTT

Sequence 4843

AAAATGATAGGAAGCTTTTGCCGTTATCTCAAACATGAGCCCCAGCAGGAAGACCATCGC
CACACAGGAGACGATGTCCGCGTGATTCTGCANGACGAATTCGTGGCTCANCACCTGGGGG
GCTCTTGGTGCTTTTNTTGCGAATNNNCATNGTGGGGCCGCCGCCCGNGCCTGCAGGTNC
CGCGTACTCANATTGCACCANGCTCTTAAACTGTCCTAGGGATTGGGCCAGGACCAGCAG
ACCTAATTTGACAAAGTCACTGGTCACCTAAANCTTTACTAGGTGGACTTTGATATGACA
AACAACCNNTCCATCACAAGTNGTTTGAAGCCTGTCAGATTCTAACAAACAAAAGCTNGA
AATTTTCTTTCACCCAAANTTTAA

Sequence 4844

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTAAGAATTTTG
TGGAAGTGCAGAAGAGGTCTTGCTCATGTTTGGGTGGGCATGGGGAAAGAGGCGTCAG
GGAACACTTCATTTCTACTCTGAGACTGAAAAGACAAGTATGAGTTACAGAGATGATGGG
GAGGATATAGACACGTGTTTCAGGTATTTGTAAATGCTGAGGAGAAAGAGGGTGATTCAT
TCAACAATTCAGGCTTAAGTATGAGATAAAGACATAGAAAGAAAATTAATGAGTGCTGAG
GAAATAGGAAGGGACCAGAAAAGTCATNTTCAAATTGCATTTTGA

Table 1

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Sequence 4845

GNCAGGTNCTTTCATAATTCAGAAGGGAAAAGTGAAGTCTCACATTATGCCTGCAGAATT
TTCTTCCTGCCCCTTGAACCTCTGATGAAGAAGTGAATAAATGGTTGCATTTTATGAAAT
GAAAGCTCCTTTGGTTTGTCTACCAAGTTTTTGTCTCCAGAGACCCAGGGTTTGGATTG
CGACTTGGGAGCACACTCATTTTTTTTAGTCGTATGGGAGAANGGGGGACACCTACCAT
TATGACACTACCTCCAGATATAGTGGGAATAATCTTTGGGATTACTTCTTTACCTGGCAG
AAGTTTTCTTCTTATTCCGCATTTGGATCCAAACCCAAAAAGAAGAACCNCCATTTTCNA
ATTTGGGGCCGANGAATTTAAATCCAGCTGGAATACCTTTAATTTTAGGNAAAAAAGG
AAAATTTATTTTAA

Sequence 4846

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGATCACGACGCAGGTCTCGTGCCAATCA
AAACGTCAACGCTGTTTCACAGCCATTATACACGTGCCCAAGCAAATAGTCCCAGACCAGC
AATGAACTCCCAAGCTGCTGTACACGGGGAAAGATGTCACTGTCTTGCANAACACTGATG
GAAATAACAATGAGGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCC
TCGATGGCAAACGGAAGCCTGTGACTGAGGCTAGAAGCTGCCATCTTGCCATGGCCCCGA
ATCATGCCCCTGGTGTCTCGGATGGATAAGGTGGAACCGCCTGAAACAGGTTGCTGCTTC
CACCAACAGGGCTTAAATTTGGGGGA

Sequence 4847

GCCTCTNCGTTTAATGACCTGGCAGCTTGTTTCTCAGCTGCAGATTTCTTTTGTAGNGT
TTCTGCCATTGCCAGAGGCATNTCTGNTGAACCTGGCATCTGNTAGTAAACTTTCTCCAA
AACAAAGCTAATTTAGGTTTTGTAGTATATGAAAGCCCTTCTAGCTNNTTCCACTTTTGA
TNTTATTTTCATCCCTAAATTGCCATCGTATTGAGGTCATTTTTTAACATTTTTTTTCCCAA
TGATTTATTTTTCTAGTGTATNTTTTTTTNTCTTGGAATTTGACCTAGGGCATGTGTGC
ATGAGTTTTACTCGGGACACTTTCTATTAATAACCCNTAACTTTTCCAANTGTGTCTGC
CCTCTTCCCATCCTCCCACCTTCAACTTNTTGGTCTAAGTTGAATATGAACTTTCCTTTGC

Sequence 4848

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGGGTAAGCAT
TAACAATATTATTCAAAATGTTATATAGAGTTCAACTGTATACAATAGAGCATTTATTAA
AGTGTGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGGCAGGCGGCTCACTTGAGGTTA
GGAGGAAAGCAGACTGGCCAACATGGTGAAACCCCGTCTCCACTGAAAATACAAAAAAT
TAGCCAGGCGTCATGGCGCACCTGTAGTCCCAGCTACTGGGGAGGCTGAGACACGAGAAT
CGCTTGAACCTGGGAGGTGGAGGTTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGC
CTGGGTGACAGAGTGGGACTCTGTCTNAAAAAAGAAAGAAAGAGAAATNAAGCAT
CTTATGTAGGAAAGTATGGGAGAAATAAAAAAATGAAAGC

Sequence 4849

CCGCGGTGGCGGCCCGCCGGGCAGGTACATGCTAAGACTTCACCAGTCAAAGCGAACTAC
TATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCCTAGGGATAACAGCGC
AATCCTATTCTAGAGTCCATATCAACAATAGGGTTTATGACCTCCGATGTTGGATCAAGG
ACATCCCGATGGTGCAGCCCGCTATTAAAGGTTCTGTTTCAACGATTAAAGTCCTACG
TGATCTGAGTTCAGACCGGAGTAATCCAGGTCGGTTTCTATCTACTTCAAATTCCTCCCT
GTACACGACATCTGACTTGGGAATGCGCAAGCAGTCGAGAGCTTCGTAGAACTCTCCCAG
TTGCTCCTTGGTCGTCTCTGGCTTGTGAGCATAGACAGACAGCCCCCAGTTCTTCTCATC
GTTACAGTCAAAGCAA

Sequence 4850

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTGGCGG
CCATTTTGTCTCGGCAGCGGTGGCCGTAGCTCCATCGCATTTTATGTTTCTGGCGAGAAG
GGAACGGAGTTTTTCATCAGGTAGATTGGTTTTTGT

Sequence 4851

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTATGGTTCA
CAGAGCAGCAGCTATGGCGTCACTTGGGGAGCTGTTAGAAAAGCAGAATCTGAGGCCCTA
CTCTACACCTACTGAATCAGAGCATGTATTTTATAAGATCCTTAGGTGATTCACATGCAC
CGTTACATTTTTTAATGGGTTTTAATAAATTATACTTGAGAAATAATAAACTGCATATATT
TAAGGTGTCCAGCTTGGCTCAGCCTGGTGGTTCACACCTGTAATTCCAGGATTTTGAGAC
ACTGAGGTGGGAGGATTGCTTGAGTAGCTGAGACTACAGGCGTATGTCACACCAGGCTAA
TTTTTGTATTTTTTAGTAGAAGACGGCATTTTGCCCATGTTGGCCA

Sequence 4852

GTTCCATGAGGCTCTAAATGAATTGACTCTGCCCATCANANATCTATGACACTCTCATNT

Table 1

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CTTGCAGCACCGCTCCCCGCTCCAGGGCGACAATTCAATCNTTAAACCCCAACAACCCACG
GCCGGTCTAGAACTAAGTGGGATC

Sequence 4853

CCGCGGTGGCGGCCGAGGTACACAGTATCAATATGATTTATCACTGTTGATGTAAACCTT
GATCTGGCTTGGTAGTATTTGTCAGGCTTCTCCACTGGGAAGTTATTTGGTTTTGTCCTT
TTCTGTATTGTATTCTTGAAAGAAAGTCACTGTGTGCAGCCCACACTTAAAGTAGGTTGT
ATATTGTGCTCCCCCTCCTTTAGGGTGGAAAATCTATAAATTATTTGGAATTCTTCTGCA
TAGGACATTTGTTTCTTCAGTTTCATTTATTTATTCAGTCATTTATATGAGTGCCTAGTC
ATAAATATTTATTTTATACTTTAACTTAGAATCTAATGGTACATTTTATTACCCTTCAGA
TCTTTGGGAATACTTAAAAATCCTAACCATTAAGCCTTTTCTTTTC

Sequence 4854

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGTCTGCCGCGGTGG
CCGGGTGCCGATTTGACAAGATCAAAGCTGCAGGAAAATGGACAGTGAGGTTTCAGAGAGA
TGGAAGGATCTTGGATTTGATTGATGATGCTTGGCGAGAAGACAAGCTGCCTTATGAGGA
TTGTCGCAATACCACTTGAATGAGCTTCTTGAACCTGAACAAGACAATGGTGGCACCA
GAATCTGTCAAAGAACAAGAAATGAAGTGGACAGACTTAGCCTTACAGTACTCGTCTTGG
TGAGAGCGTGAGCTGCTGAGATTTGGGAGCCTGCGCTAGGCCCGCTTGGAGTTCTGAGCC
GATGGAAGAGTTCACTCTTGTTCACCCGCGGTGATGCGTGCTTTTCGCAAGAACA

Sequence 4855

GGAGTCACACTATAGGNCNATNNGGNGAATNGNACGCTCACCGCGGTGGCGGCCGCCCCG
GCAGGTACGCGGGGAGGCCTTTCTTACCTCCCTCCATGCTGTCCACTTCCTCTGTAAAG
CTCTCAACCCTGTCCCCCTCCCCCTCTCTCCTGGGAAAGAGCCCTCCCATGCCTAGCTGC
TGCTCTTAGGGACCCTGTGGCTAGGTGCGCGGATGGAAATCCAGGTATGCCCAACCCCT
CCCGGTGGAGTAGGGGTTGGGTGGTTATGGAATGACGGAAAGAGGCAAAGGAGTGTATAA
TTGGAGGGTCAGACAAGGCTGGGAGTTGAGGTCCCTCCTACCCCTTACCTGAGCCCTCAG
GTCCTTCNAATGATCTTGAAGTAATNGGCTCCAAGTCTTTTGACCTGGGGGGTCC

Sequence 4856

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGACGCGGGG
TCAAGCACCTGTCTGCCAGCCAGAAGGCACTGAAGGAGAAGGAGAAGGCCTCCTGGAGCA
GCCTCTCCATGGATGAGAAAGTCGAGTTGTATCGCATTAAGTTCAAGGAGAGCTTTGCTG
AGATGAACANGGGGCTCGAACGAGTGGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATC
GGTTTCACCGCGCTCGTTATCATGTGGCAGAAGCACTATGTGTACGCGGGCTTATGAGCT
GTGACATCGTAAACCATGCACAAGGGCTCTTCCAGGGTTAAACAAAATGCATAACAATCA
AATACAGCAACATCTGCCAAAAGAAAGTAACACCAATAAATTGCAAGTGATTGTTTAACT
ATCTAATGTGGGTATAATCAGC

Sequence 4857

NTGGGTGCAGCCGAGCGGTGTGGAGCGGAGAGAATACTCGAAGGGCTCTCCTGATACTAG
CAGTTTTACGATTTAAACTTCGCCAGAATTTGCACAGGGTCTCACTGTATTGCCAGGT
TGGTCTCGAACTCCTGGCTTCAAGCGATTCTCCACCTCAGCCTCCCAAAGTGCTGGGAT
TACAGGCGTGAGCCACCACGCCTGGCCTCACTCAAACAGTAAACGAGGTATGTGACGCAT
TCCCAGACTCTTCAGCCAAGTGAAGCATCAGCTTCTTCACAGCAATTGGGTCTGATTAAT
GTCCTCCCAAGACAGACTTCATTTGGATCCACGATCAAGAGGACTCTGCCAGGTTTTCT
GACCCCTCTACATTGCTATTAAAGTGCCAAGGCCTTAAGACTTGGGTA

Sequence 4858

CCGCGGTGGCGGCCGCCCCGGGCAGGTACAGGTCTTGCCTAAAATCAAGAAGAGAGCAGGA
GAACTGAGAACTCCTCCCCTTCCCCCACCAGAAGCCTTGTGTCTAGTAACAGGTAACAA
CAGCCATCTACTGTTGGAGAAAGAACAAAAGCATGGAAAGGATGGAGCAGGGAAAGAGGG
AAAAACAACAACCACTCTCCAGCACTCCAGGTCTTAACATTAAGCACAAAATAGGAGCA
GCCTAGCCCACCACGGAGGGATTTCAAGTCTGTTGCACACTGAAAATAACCATGGCTAC
AACAAAACCCAATTACCAACAAATGCTGACTAAATTGACTAATAGCCCCATGCTAATAGC
TTGATGGAAGGATAGATATTCCCACTTTGAACATTTGCTTCAGTGTCTACTTT

Sequence 4859

TCACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGGAAT
AGAATGGAATGGATCGAATTGTAATGGAATGGAATTGAATGGAATGGAATGGAATGGAAT
GGAATGGAATCAACGTGAGTGCAGGGGAATGTAATGGAACGGAATGCAATGGAATGGAAT
CATCCGGAATGGAATGGAATGGAATGGAATGGAATGGTATCAACCCGAGTGCAATGGAAT
GGAGTGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAACAACCCGAATGGAATGGAATG

Table 1

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TAATGGAGAGTAAGGGAGTTGAATAGAATCAATCCAAACGTAATGGAATGGAATGCAANG
GAATGGAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCAACCCGAGTGCAATC
NAATGGAATCTAATGGAACGGAACGGAGTGGA

Sequence 4860

CCTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACG
CGGGGGATTTGGCAGCAGCGGAAGAAGGAGACCGGAGGGTGTGTGTTGGGCAAAGCCGGA
GGCAGAGGAGGACGATTGTTTTACGGATCCCGTGATCGGCCCGTCCTTCTCCCTTTCCC
CCCCTCCCTACCGCCCCTGTCCCGCCGGGAGCGGCGGCGGCCTTGGACTTTGCTGTCTT
TCCTCGCGGAGACAGATTTCAACACTACACTTGCACAATGTCTTTGAAACCAAGAGTAGT
AGATTTTGATGAAACATGGAACAACTTTTGACGACAATAAAAGCCGTGGTCATGTTGGA
ATACCGTCGAA

Sequence 4861

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT
TTTTTTTTTTTTTTTTTTTTTTTGGATTAATGAAAACATTCTTGGCAAATGCTTTCGCTCTGGTC
CGTCTTGCGCCGGTCCAAGAATTTACCTNTAGCGGCGCAATACGAATGCCCC

Sequence 4862

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTATTT
TTTTGAGACAGTCTCACTCTGTCAACCAGGCTGGAGTGCAGTGGTGCAACCTTGACTCAC
TACAACCTCCTCCTCCTGGGCTCAAGCGATTCTCCTGCTTCAGCTTTCCAAGTATTTGGG
ACCACAGGCGCACACCACAGGCCTGGCTAATGTTTTTGTGTTTTTGGTAGAGACGGG
GTTTCACCATGTTGCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATTCACCCACCTTG
GCCTCACAAAGTGTCAGGCTTACAGGCGTGAGCCACTGCGCCCGGCTCACAGGGTAAGGC
TTCTGTCTGGTGTGTTGTATTACGGATTTTGCTTAATAGGCACAGTGAGGCATTAAAAAG
AAAATTCAGTATGCCTGTAGAAAGGATAATCCTTGTTTAAAGTCTCCAA

Sequence 4863

CCGCGGTGGCGGCCGAGGTACGGGTTGCCCTGGCTTGGCACTGCAGGACGTGTCTCGTT
TTATCTTTCCATTTCAAGTGCTGGGGGCATGTGGCTCGGTCAATTTTGGGACCATCTGTG
GAACCACCATGTGTGATCAGACACCCAACACACCCGANGCACAGTGGTGCAAGAGGAGCG
TNTAATCTTTCCAGGGCAGGGGTGGAGGGAATNAAAGGNNAGGNGACCNACTANAANA
GGAACCTTCNNAGNTTGAACGCTACTGGTTCTTGGTGCAAGAACTCGCCGTCCACCTCG
AGAAGTTGGCACNTGCAAAAANAAGCTGCGTCCGTCTGCTACTCTCGGTAGCATTANCTT
AAAGTTGAGCTTGGCTTGCCCCCGGGGCCGCGGGCCGCTCTAGAACTAGTTNGATCCCC
CGGGGCTGCAGGAATTTGCATATCAAGCT

Sequence 4864

ACTACTATCGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTACAAGGTTTTTTTCTAGTGTCCAAAGAGCTGTTCTCTTTGGACTAACAGTT
AAATTTACAAGGGGATTTANAGGGTTCTGTGGGCAAATTTAAAGTTGAACTAAGATTCTA
CCCGCGTNCTTAAACCAGACAGCAGGGTTCANAGGTGGCACACCGGGACAAANCTGAGGC
CCTGCACCTCAACAGCTGACTGCCAGGTGCCTGNNGGNGAACTGAGGGGAGTATAGGGAG
AGGGCAGGTTG

Sequence 4865

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTCTTTTTTTTTTTTTTTTTTTTTTTTCTGA
TTAAATGTTCTTTATTTGATGCTTTTGNGTGCACAACACTATAAGGAGTTGCCCAATTCA
CCAAGTCAGCCCGTTACACCCCTTAGTTAAGGTGGCCATTAAGGGGCCAGGGGGTTGGCA
ATCANNAANCTGCCTTCTTGCCTAACTTT

Sequence 4866

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTATCT
GGGGATACCCAAAAAGCAAAGCAGTTCCTGCCTTTTCTTTCAGCGGGCAGGTCTGTTCTGAA
GCTGTGGNGGAATACGNCTTCAGTGGTCTCGTCTCANACTCTATTTGCCAAAGGAACT
TGCCTTATNACCTTTATTGCTTTGCAGGCATTGAATGCCCCAGGAGGAGCCC

Sequence 4867

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGGGAGGCTGAGGCAGGC
AGATTATGAGGTCCAGATTTGAAGACCAGTCTGACCAACATGGTGACAACCCATCTCTAC
TAAAAATACAAAAAAAATAGCCAGTCGTGTTGGCAGGCGCCTGTAATCCCAGCTNCTAG
GGAGGCTGAAGCAAAAGAAACACTTGAACCTGGGAAGCAGAGGTTGCAGTGAGCCAAGAT
TGCACCACTGCACTCCAACCTGGGCGACAGAGCAAGACTCCATCTCAAAAAAAAAGAAAA
GAAAAAATGGCACTACATAATGTTTCTAATGCTGNTTTTCTTATATGATTNTCTTGATGG

Table 1

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ATTTGCTTCACAACTTAGGAGCTAACATCTTTGGAATGGCTAGTCTCCTATAGAANAAC
TTCTTTTACTTTGCTTTTCATACATTTTATA

Sequence 4868

ACCGCGGTGGCGGCCGAGGTACAGGTTCAATCAGCTGTTTTTTTGATNTCAAGAGTTACA
CTTCTTCGAAACCTCTGCACANAGNTCTTCCTCAGNANCACCACACTGCNATGTNAATAA
CTTTTCTAGCAGCCGAATGAACTGCATATAATCTAGAATCTGACAGATTTTTCNCACTTA
ACATNTNNTTTTCTATGGTTTCCCTNC

Sequence 4869

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAACTGAGGC
TCAGAGAGGTTAAGGCACTAGACCAAGATCACACAGCTGTTTAGTGCAGAGCCAACACTC
AACCCAGGTCTCTGCTCCCTCATTCTCTTCCCATTCTTGACACCAAGAATACGAAAGAG
GTTTTCTACTTCCCTCTTCCCTACCCAAACAGGATTTTCTTTTCACTGGTCCATCCACGC
ACAACCTAGTCAGTTCCGAACAGGAAAAGGAACAATTTATCAAGTTAATTGTCACAATCC
CAGGTGTGGTGCAGTGGGCTGGGGTAAACATTTTGCTGTATCTTTCATGATGTTCTCTGA
TTTCTCTCTTTTTTTTTTTCTTTTT

Sequence 4870

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACACACC
AGGATTCGAGGGCCACACCGCCTCAGCCAGCCCCGGCAAGGGCCTATCAGGGGTGGGTCTG
GGGCATCCGAGCGGGTTTGACGGAAGGAGCGGCGGCGACGGAGGAGGAGGATGGAGGCGG
TGGTGTTCGTCTTCTCTCTCCTCGATTGTTGCGCGCTCATCTTCCTCTCGGTCTACTTCA
TAATTACATTGTCTGATTTANAATGTGATTACATTAATGCTAGATCATGTTGCTCAAAAT
TAAACAAGTGGGTAAATTCCAGAATTGATTGGCCATAACCATGTCACTGTATTACTGCTCA
TGTCATTGCACTGGTTCATCTTCCTTCTCAACTTACCTGTTGCCACT

Sequence 4871

TCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCCTCACAGTG
CAGGGCGGTATGCCGCCAAACGCTTCGCGAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCA
CTAACTCCATGATGATGCA

Sequence 4872

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGG
GAAGTGGTTTTCGTTTTTCAAGATGGCGACTCCCTATGTTACTGACGAGACCGGCGGGGTG
GGAACCGCCAAACCTCTCCCTTCTTTTTGACTTCACCCTTGATACCATCAAGGCCAGAG
GATGGAACCAAGATAACATAAAATAGGTGCTCCTTTGTGATAATGGGCTATTTGTATCTC
TGAGGGCTTCCACACAGGATGGCCATTCAAGAAGCTTCTGCTCTGCCTTTCATTACAGTC
TATCTTTAGTCCTCCTAAACCTTCAGCTATAATCTCTATGCAATCAACTTAAATATATGT
TTGTAGTATTGTCCCTTTCTNCCAAATTCCATGTNAAACACTTTNCCTGAATTGAATTGT
TTCCACCAAAGTTGTTTTTCCCCTGT

Sequence 4873

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCCTGCAGA
ACTGCCCCACTCACCTCCTCCAACCTCTCTGGGGAAACCCAAGCCCTGCAGCTCATGGAA
CAGAAGAAGTGGAACCGACGTTTCTGGAACAGGACTATCTGAGAGCGGTTCTTCCTGGCC
CTCGGGTTTCATGCAACGGCGTAACCTGGAACCGACGTTACGGACCAAGGGAAGTGGAAGA
TGTTTTTGTGTTGGAGTCCTCGTCGTCCTCCTCCATGTCAATTGGCCAGGTAGCTGAGGACAG
GAATCAGGTTGCTGCTCAGGGGCACCACCAGGAGAGACCTCCGGCTGAGGTCAGCTTCCC
AGAGAGGAAGAGTAAAGAGGACAAATAGGTGAAGGAACAAATGAAAGGCTGGGAATCCCA
CTTCCCCCGCTG

Sequence 4874

TCATACTTAGGGCAATTGGAGCTCCCCGCGGGGGCGGCCGCCCGGGCAGGTACACCGACT
ACGGCGGACTAATCTTCAACTCCTACATACTTCCCCCATTATTCCTAGAACCAGGCGACC
TGCGACTCCTTGACGTTGACAATCGAGTAGTACAGGTAAGCCCTGGCTGCCTCCACCCAC
TCCCAGGGAGACCAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAAGGGGGAAGGG
GGGGCACGAAGGCTCATCATTCAAATAAAACAAAATAAAAAAGTATTAAGGCGAAGATT
AAAAAAATTTTGCAATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCCTGTGTGGG
ACTTGGGAGGAGGACTGGGCCATTCTCCTTAGAGAGGAAGTTGGGGGTGGCTTTTAGGA
TGGCAAGGGGACTTCCTGTAACAACCG

Sequence 4875

CCGCGGTGGCGGCCGAGGTACCTGTGGCAGCCCTTCTTCAGACACGGCTACTTCTGCTTC
CACGAGGCTGCTGACCAGAAGAGGTTTAGTGCCCTCCTGAGTGACTGCGTCAGGCATCTC

Table 1

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AATCATGATTACATGAAGCAGATGACATTTGAAGCCCAAGCCTTTTTAGAAAGCTGTGCAA
TTCTTCCGACAGGAGAAGGGTCACTATGGTTCCTGGGAAATGATCACTGGGGATGAAATC
CAGATCCTGAGTAACCTGGTGATGGAGGAGCTCCTGCCACTCTTCAGACAGACCTGCTG
CCTAAGATGAAGGGGAAGAAGAATGACAGAAAGAGGGACGTGGCTTGGTCTCCTCGAGGA
GGCCTACACCCTGGTTCAAGCATCAAGTTTCAGAAGGATTTAAAGGTGCCTTGAAGGGAG
GG

Sequence 4876

GCTCCCGGGTGGCGGCCGGGGGCATTCGTATTGCGCCGCTAGAGGTGAAATTCTTGGACC
GGCGCAAGACGGACCAGAGCGAAAGCATTTGCCAAGAATGTTTTTCATTAATCAAGAACGA
AAGTCGGAGGTTCTGAAGACGATCAGATACCCGTCGTAGTTCCGACCATAAACGATGCCGA
CCGGCGATGCTGGCGGCGTTATTCCCATGACCCGCCGGGCAGCTTCCGGGAAACCAAAGT
CTTTGGGTTCCGGGGGGAGTATGGTTGCAAAAAANAAAATAAAAAANNANACNAANGTAC
CT

Sequence 4877

GCTCCCCGCGGTGGCGGCCGAGGTACTGCCTNNTGGTAAGCCACANACCTTTTNATCTTG
TAATATCANAGTCTTGAATTCTTTATCTTCCCTACTCTATATCTACANNACAGTAGCAC
TGACTTATNAGCATGCAGAGCTTNNTAATTNTATNCTTGGGCCGGATNCAGAAAAGGGGG
TTCCTCATGCTGGGATCNGAACAACCCAGCACAGGCATGTCTGGGGAGCAAGGCATGAGC
CTGCATGTGGA

Sequence 4878

CCGGGCAGGTACGCGGGGGAAGAGTGAGGGTTCCAACCTTTTCTGCTTATCTGGGAGGTGT
TGGGCGCGGACAGTCGAGATGTCAGANAAAAAGCAGCCGGTAGACTTAGGTCTGTTAGAG
GAAGACGACGAGTTTGAAGAGTTCCCTGCCGAAGACTGGGCTGGCTNAGATGANAGATGA
AGATGCACATGGTCNTGGGAGGATAATTTGNGATGATGACAATTGTNNAGGATGACTTTC
TCTAATCAGTNTACGAGCTGAAC TAGAGAAACATGGTTTATAANATGGAGGNCCTTCGTAG
CATT

Sequence 4879

AGGTACTTTGCTGGGCACTGTTCTAGAAGCTGGGAAATACAAGTGATCAAAATATAACCT
ACCCCACTCCCAAATCCAGCTCGAAAAAATTTTAGTGTGGAGGATGGGATAGTAAA
GATAATAAGCCAATGAATAAGGAAAACATAGCATTTTCAGATCTTTATATTATGATAAAAA
AAAAAGTCCTAAATTGGAACAGGAAACACAGATGGGGTGGCTCAATTACAAGACAGCAGT
TAAAGAAGGCCTCACTGACAAGATGAGTTCCAGTGTCAGGACCCCAATATCCTTCCTTA
CAAAGAGTGGGGATCCCACCCTAGAAAAGGAATAGCAGTTCAGCCACCCC

Sequence 4880

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCTAGGTTT
CCTTCAAGACATCGTCTTTTGAATGAGAACTTTCCTGGGTTTTAGAGGAGGGTGGACATT
GTTTATTGATGCCTCCTGTCCATTACCGATGTTTCTCCTGATTGTTATTCATATGCTCAC
CACCCCTCCATGGAGCATCCATGGCCTGTGACAGANCTCTGGGGACTGATATCCTTCCAC
TGACTTTGGCGCTGGTGAGAGCCCTGGTCATGTGATTGAGCTTGGCCTTAACCCGACCCA
GTTGCACATATTCTCAGGCCCTTTANAGTTGAANNCTGAGACCTCTCTGAGAACGCTTG
CCAGCCCATGCTCTTCTAAGGCTGGAGCAAACCTTCCTCCATCTATTTCCANAACAGAGGG
GACTGCAGGGGTTTGGACTCA

Sequence 4881

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGCTNTA
AANGGGGTAAAGGGGGNGCTNNAGGGNAAANACGNCCCTNTTTAAAAAATTTTAGGGG
AATNAATTNTNGGACAATGGGCATNAACTGGGGTTTGCTCCNNAATTTNAAAACATTG
ACCNANNNNTACCCCGGTCNTNTANCNNGAAAAAGNGGTTTNGTTAAACCTCCGGGAA
TTTGNATTTNTTTTAAACCTACCCNNNNACCTGCCCGGGNGGCCGCTTTAAANATNNT
NGGATCCCCCNGGCTGCAGGAATTTTAANATCAANCTTTTTTTGATNCCNTNNACCTNAA
GGGGGGGGGC

Sequence 4882

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAGTAGTG
CACTCTTGGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCC
CACAAGTAGTGGGACTATAGGCACACACCACCATGCCCATCTAAGTTTTTGATTTTATG
TAGAGACAAGGTTTCACCATGTTGCCAGGCTGATCTTGACCTCCTGAGCTCAAGTGATC
TGCCACCTCGGACTCCCAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTT

Table 1

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AAATCAACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAGAACTCCATCACGT
GGTGCTCTCTTTCCTGGATGTGTTGTGCCCAAATAGCTTGTTCATCAGATGACTTATT
TGCTATGGATATATTATACTTCAAG

Sequence 4883

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGAGGGCTAAGTG
CAACAAAGAGAGTGATGGGGTCATCCTTCATACATTCTGAAGACCGCCGCACTCGCATCC
ATCGAGGCACGATTGTCCCTCCACGCTGGAACACAGGGATACTGCTTAGAGTTACAGGCA
GGTACAATTCAGGCAATTTTGTCTTTTCACTTGGGTTTCAAGATTGCAAATTCATTGCTGTG
AGAAAAGGATGGAGGCAAATTTTAGCAGCAACCTCCACCTGACTGCTTGACTGGAGTGCT
CTGAATTTTAAACATTGGACTTCTCAGCACCACCAGCTGTTGCTCCGGGACCCATTGCTT
TTTAATCTCAGCTGCCATCGTCATGAAAGGACTGTTCTACATTGCTTGCATTTCTTAGCA
CTGGTTTCCAAAAAACGGGAATTCCAAG

Sequence 4884

GTCCCGGCCGAGGNACTACCTACNTTGAGGTTATGGGTTTTNTCNTTCTCCCTTTTTTTC
ACCTCTTTCTTTCCCAATTCAAACAGCCAANTGAGCCCTGTTCTGGTATTTTGAATCAT
TAGAGAAAAGAAAGGGAGTGGCTGTTTTGAGTTGTCTTTCTTGCAGAAAGGAGAAAAT
GTGANTATGTTTTTTTTTTTACCAGCCTACTTCTAAGTGTCACTGCCTGGTTTTTCTCT
TTTTCAAGGATTAGAACTAAGAGGACACACCAGCATCGGAGTGTATTAAGCCCCTGAAAC
ACATGGTAGCTAGGGGCTGAACACAGGAACCGTATGACAGCAGCACAAACCCCCAAAGGA
TGTTCTTGCCTTGGGGGGGCCCTGAGCCCCTTG

Sequence 4885

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGTCANTGTCAN
GCCCCAAGGCTGAAGGAAAAAGAGCAACAGATCCAGGGAGCATTCACCTGCCCTGTCTCC
AAACAGAGCCACCAAGGAGGAGCAGGGGAGCGA

Sequence 4886

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGTAGCATGCCAGGAAGGAGAGAC
TGGGATGGTTTTTTTATCTGTGCTTTCTTAAATCAAGGGCCGCCGGGCCGAGATGGAT
GGAGGGACCGGGGATTTGGGAACTCGAAAACGAGCTGAGAGAAGGGAGCCTGTGGAAATA
GACTGGAGTCTGGGTAGTGTCTGTTTCTTAGAGAATGGTCTCGAAGTAACTTCTCGGTAAA
GTCTTCNCGGAATTTCCAGACCACACTTGCCCACTGGGAGGCTTTTAGGACCCGAGACGT
GTGCAGGCTTTTCCAGCCAAAATGAAGTTAATCCCTT

Sequence 4887

TCCCCGCGGTGGCGGCCGAGGTNCATTGAGAATGAGAAGCTCATCTCAGGAAAGCGCCAG
GAGCTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCTGCCCGCATCCTCC
AGGGGGCCCANGGTGCCTGCACTTTGCTGTGGCAGGCAGATTGGGTGGTANTGGGANGTT
GTTGCATTGGAGGCCAANTNGAAAGCTCGACATCTTGTAAGGCCTTCAANGAAGAGAA
AACCAGGCCCTGCGTCANGCATNTGNGAGTTTGCCGTTTGTCTTAACCTTTCTTTTTTTT
ATTNGNTTAAAAAANAANAANTCCTAAAAAACTTTCCANCTAAAAACAAACANCTTT
GNTGTTTTTGAACAAAAGGGAANTTTTTTCA

Sequence 4888

GCAACATGTAAAATTAACTTAAGTATATTTTAATTTACCTGGTGTTCCTAAAACCTATT
ATTTCAATTTATAATAAAAAAATTGAGGTATTTTACATTTTATGTTGCTAAGTCCTTAA
TCTTGTTTTTTCCATTTATAGCACATCTTAATTCCTTTGTAGCTACATTTCAAGTATTCAG
TANCCACATATGACTGTTGTTGACTGCATTGGACGGTGCAAGTCTAGAATATAGTAGGGG
CTCAGTAGATGTTTGTGTAATGAATGAAGGAGAGGAAGATGANTNTGGTTGTTNAAGGT
GATTGTAGAATCGAGGAAGGGTTTTGTTCTCACAAGTTGNGGCAGGAGTATAATTTTTT

Sequence 4889

NGCATCATCATGGNGTTAGGTGAGGCGCTCCACANTGGGGACACTTTNCCTTTGGCNGAA
ANCCGTTTTGGGCGGGCANTACNCGNCCCTGCACTTGTTGAAGGCAAAGTACCTNANGCC
CNGNTCCTAANAACCTTAGTGNNAAATCCCCCGGGTCTTGTCACCGGAAANTTCCTATTA
NTCAAANCCTTTAATCNGAANACCCCGCNCNNAACCTTTNGAGAGGGGNGGGNCGANCC
CGGGTTATCCNCAAGCCTTTTTTTTGGNATCCCCCTTTTTATGCTNGAAGGGGGGT

Sequence 4890

AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGTG
CCCTCTTCTGGCTCTTGAGGCTCTGGAGTCCCAATTGTCTGTGTTAGTCAGTGACCAGGT
TCCAGGGAAAATGATGTCATGTGGTGGTCCAACCTTACTGGAACCAAGAGACAGTACCTC
GGCCGCTCTAGAACTAN

Table 1

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Sequence 4891

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCCAGCC
CGGCACTCCAGCCTGGCGACAAGAGTGAGACTCCACCTCAAAAAAAAAAAGAATCCAAT
ACTGCCCAAGGATAGGTATTTTATAGATGGGCAACTGGCTGAAAGGTTAATTCTCTAGGG
CTAGTAGAACTGGATCCCAACACCAAACCTCTTAATTAGACCTAGGCCTCAGCTGCACTGC
CCGAAAAGCATTGTTGGGCAGNACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATATA
GCCATTAAAGATGACCTACAGTGCTTGTGTACCAGTGAACAAAGGCACGCTTGGCATAACA
TCAGGTCAAACCTTGTGGTTCCAGGCCGAGCCCAGGCCTCAGCAATGGCTGTGGTGTGCT
CANCATGCACACAGCT

Sequence 4892

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
GCTAGCTATTTAATCTAGGAAATACAGCTCAGAAAAAAATGCAGTCATAAAACCTGTTG
GTATAAGATAAGCAGTTTATTTAATATCTAATTAAATGTGGTCACCAGAGAAATCACAG
CTTATGAACTTTATCAGAAAAAGATTAATCCATTTTCAGGCCTTAACCCAAATGTCATAAG
AGAAGTCATGAATTTAGATAGGAATCCACTTATTATCCAAAGACGTTTTTCATATCAAGTT
AGGTGAGCCTATATTACTAGCTATATTTATACTTACTTCAATCAAATTTATATACTTTGT
AGCTATCACTGATGTGGGGCACAATTATCGAACCAGAATAAGATAATAGGGAGCCTTTCT
GTCTTTATCAAAAATTTCTAGAATGTTCTA

Sequence 4893

CACACAACATTACTGAGCCCCGGAAGNCNTATAAGTGGTAAAGCCCTGGGGNTGCCCTTA
ATTGAGATGAAGCCTAAACTTCACATTAAATTGCCGTTGCCGCNNCACTGNNCCGCTTTT
TCCAGATCGGGGAAAACGCTGGTCGATGNCCAAGTCATGCNATTTANATGNAATCGTGNC
AAACGNCNCNGGGGGGAAGNAGG

Sequence 4894

CACTATAGGGCCGAATTGGTAGCTCCACTCGCGGTNGGCGGCCAGGTACAAGCCANNAG
CAACCCCTGGTGCGACTGAAAGGCGGTGCCTACATTAGGGGAGGGCTCGCGTGGAGGTGC
TNAAAAATGGAGAGTAGGGGGACCGTT

Sequence 4895

AGGCGGCCGCCCGGGCAGGTACGCGGGTATTCCATCTGTGGATAGAACCCCTGGCAGTGT
TGTNAGCTCAACCTGGTGNGTTCAGATTCTGTCTGAGGCTTCTTGNTCTNATTCATTTT
AAGTGCTACTGCCTGCACANTNTNCTACACTGTCAAG

Sequence 4896

CACTATAGGGCGAATTGGTAGCTCCACCGGCGGNTGGCCGNCNGTCCCGGGCAGGGTCCN
CTGTNTTGGGGCTTGTTTTCCCTACCTTTACCCCAAACCCGGGTTTTAANGTGTCATTAC
CAANTTCTAAAGAAATTAAAGT

Sequence 4897

GGGCCGAGGAACATAATTATTTTTTTNTTTTTTTTTTTGGGTNCTATAAATTGGAAAGNGAA
GGGCTCGGACTGAAATAAATACATTTATTCTGAGTAATGACCCTTTTGGGAGCANTGTCC
GTCAACTNTGCTTCGAGAGCGTCTCCAACGTGAGCCAGCANCNCNCTGTNNTTNGCGCCC
TTTCGCCGAAGGCCGGNAACCCANCAACCCNNGGGTCCCTCTCANNACAGGTANNGGCCGGC
TTTTTTTATCCCTTGTNGTCTTGGTNGNAAAGGGGGAAAAGTTANGACCCAANGGTTNG
CGGGTNCAACCTTGGTTTTTCTTATAAAAATNNGGGNAAGGCCCGGGAANCAAAAATTGGA
ANTTGGCCCCCTTCTTTTTCTNCTTGTAAANCAATGTAAANANAANATTTGTTGCCCCG
NGNCTTTATAAAACCTTTA

Sequence 4898

AGGTACGCGGGGCTNATGCCATTTTCAGCCTNAGCACGCCTGCACCCAGGCGCTCATTA
AACAGCATGTTGCTCCCCACTGCCTCGTGTTGCCTGTTGGCGCGCTGTCGGGGTTCAGAA
CCGATACAAGAAACCTTCCACCTACCCTGGNTGCTTTTGGGCCTTTAATTCTTATTAAG
CCGGGGCCAAGANCNATTNCTGGCCCCCTTAAANTNGCTTTGGCNGTGTCTCCTAAANGGA
CCTGGAAAATTGGNTTCCCTTGGNAATAANGTTTTTTGGCCTTGNATCNANCNATNCCTT
CTCAANTTTAATTGNAACNNAAAAAAANGCCTATTTTGGTNGNCNCNGTATATCCAAGTT
AATGNAAAAAANAATTTGGTCNAATTTNGNTTNCAAAACCTGNNGNAAAAATCCCT
TTATTTAANTGGGNTNTTTGGTNTTTTGTATNCTTATTACNTTTTATANAAGGTCTAAA
NCTAATTTTGNCCNCTTTTAACATTTTGGTATTTAATTAAAA

Sequence 4899

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGGCCT
CTTTCCGCCATCTTCCGCGCCGGTGAGTAGCACTCTCTGAGAGCTCCAATTTTCATCCGT

Table 1

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CTGCCATCGGCGCCATCCTGCAATCTAAGCCACAATGGTGC GCATGAATGTCCTGGCAGA
TGCTCTCAAGAGTATCAACAATGCCGAAAAGAGAGGCAAACGCCCAGGTGCTTTATTNAG
GCCGNGCTTCCAAAAGTCATCGTCCGGTTTTCTCACTTGTGATGAATGAAAGCATGGGT
ACATTGGGCCGAAATTTGAAATCATTGATGACCACAGAGCTGGGAAAATTGTTGGTGAAA
CCTCACAGGCAGGCTAAACAAGTGTGGGGTNGATCAGCCCCAGATTTGACGTGCAAACCTC
AAAGACCTGGAAAAATGGCAGAAATAATCTGCTTCCATCCCCGCCAGTTTGGGTTCAT
TGTACGCCGGGGCTT

Sequence 4900

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTGCGTTTGTGGCCGTCCGGCCTC
CCTGACATGCAGCCCTCTGGACCCCGAGGTGGACCTACTGTGACACACCTACCATGCG
GACACTCTTCAACCTCCTCTGGCTTGCCCTGGCCTGCAGCCCTGTTTCACTACCTGTC
AAAGTCAGATGCCAAAAAGCCGCTCAAAAGACGCTTNTTNNAGAAAAANTAATTTTTC
AGATAAGCCGGTGCCAAGAACCAGGGGTTTGGTGGGTGACGGGACCTTAAAAGCTTGAGAA
GTGTGGTTCTTGAGCATCGCAGCTACTTGCTCGGCAAAGGCCCGGGACAGACACTTTGCT
GGGGATGTACCTCGGCCGCTCTAGAACTAGTTGGATCCCCCGGGCTGCAG

Sequence 4901

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTATTCTTTGCAGTCTCAGGAATTGTT
GACATGCTCACCTATCTGGTCAGCCACGTTCCTTGGGGGTGGACAGACTGGTTATGGCT
GTGGCAGTATTCATGGAAGGTTTCTCTTCTACTACCACGTCCACAACCGGCCCTCCGCTG
GACCAGCACATCCACTCACTCCTGNTGGAATGCCCTTGGTNCGGAAGGGGGGNGTTNAGT
ATTCTCCCTAAGAAGGGTGGATCCTTCCCGGGGAACCCACCATTTGGTGCNTNGGAACT
TTTTCCCGAAACCANGTCTCATCATTTCTTTTANNNGGAACCTGGTTCTTGGCANNATTGG
GTTTAGTGCTGTTTCCCACCTTTTGGAAACACCCTNNNTTGGGACCAGAAAGGATGATGCC
AACCTCATGTTTATCATACCATGTGCTTNTGCTGGCACTACCTGGC

Sequence 4902

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGACCCGCCAGAACCAGTGC
TTCTATAACTCCAGTTACCTGAATGTCCAGCGGGAGAATGGGACCGTCTCCAGATACGAG
GGAGGCCGAGAACATGTTGCTCACCTGCTGTTCTTAGGGACACCAAGACCTTGATGTTT
GGTTCTTACCTGGACGATGAGAAAACTGGGGGCCCTNNCTTTTNTNTTCTNNCNANGCCC
ATAANACGAACCCAAGGGAGCCAACCTTGGGAAGAGTTCCTACGAAAGCTTCTCGAACTGC
TTGTGCATTCCCAGGTCAGANTGTTTATGTACCTGCCCCGGGCCGGCCGCT

Sequence 4903

CGAGGTACTNNTTATTTNTTTTTTTTCTCTCTCCCTCCCCACACCGTAGCGGGCGCNCG
AGCGGGCCGGGCG

Sequence 4904

NACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTGCCACACAGACTAGGGAATAAGAGAACAACAGTAATAACTGAGTA
GTGCAAGATTATATCTTTGAGTCTAAAATAAATAAATAACTTCCAAAAAAGTAAGTG
CTTTTGTTTGGAAGGTGATANCATNANGANTATAAACCAAACTGCTTCACTGATATAACT
CCCACCAAAATATCTTCATGGGGTAGGTTACTGATTTTTTATCTTCTGAATAAGGAAACAA
AGGTCAGTGACAGATACCAGTAAGTATTTTTTACAATCTTAAAAAAACCCCAACATA
TTTCATTGGGAACCATAAAAACCTCATCATTTTTCTNTTTTATGAATAACTCGTGTTTTTT
ATACAACTTTTANAATGCCCGNCTTTCCTTTTT

Sequence 4905

ACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGTTGTCCTGGTGGAATG
TGTCCTCCCTCGTTCCCCAGCGCCACGATGTGGATGGACCTGCACGGACAGAGGGGGCGAG
GGGAGAAGGGAAGCACGGTCAGCGCGCGGGTCTCTCCTCGGAACANGAAGTGCCCCGNGT
ACCTCGGCCCCGTTCTAGAACTAGTTGNATNCCCCCTGGGCTGCANGAAATTCGATTTTCA
ATGCTTAATTCNATACCCGTTTCNACCCTCTTAGGGGGGGGGGGCCCCGGTTACCCCAAACCT
TTT

Sequence 4906

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAGACTGA
GTTTTGCTCTTGTACCCAGGCTGGAGTGCAATGGCGTGATCTCAGCTCACTGCAACCTC
CACCTCCCGGGTTCAAGCGATTCTCCTGCCACGGACTCCCGAGCAGNTGGGATTACAGGC
GCCTACCACACACCCAGCTAATTTTTTGTATTTTTTAGCANAGATGGGGTTTACCATGTT
GGCCAGGCTGGTCTCGAACCCCTGACCTCAGGTGATCCACCCGCTTNGGCCTCCCAAAGT
GCTGGGATTATAGGCCGTGAGCCACCATGCCCAGCCAGGAGTAGGNAATATTAAATGAG

Table 1

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GGTTCAGTAAAAAGATTAAGGCTTANCATTTCTNACNTAACTNGGCCACAATCATTTTAG
TGTTTTCTTTTTTGGAATA

Sequence 4907

ATGGCGGCCCCGAGGTACTCACAAGCACTCACATATGCCACAGTGCACTTGCTTNTGCTGC
AGTATGAGCCACAGTGTATATCTGTGTGATTATGGAATACACAGGTAATCCACTTCAAAA
AAACAGCATTAAGCTGCCTTNTTTTTTTTATNAAATAGTTGAACTAAGGGCCTGGGTATTN
TTTTGCANNNGGANATNAAAAAATANANACNTTAANNATGGAAGGGGGACCCCATTTTTAA
TNGCCAAATNGGANTTATTCNTTTTTTTTNCAGGTNTCCTTTNGNGTNCCAATTGTTGCN
AACCCNACCTTTTAACCANNGNCAANTGGNCCCCTTGGCNTTTTNCCTTTCAAAGNTAAAA
AGTAACCAACCCCCCTTTTTTTTGAAGGCCACCCAATTTTAAAC

Sequence 4908

TCATGGTCATAAGCATGTTTCCCTGTGTGGAAAATTTGTTTATTNCCGGCGTCACTAAAT
TTCTCACAACCAAAACATTACCTGATTCCNCNGGTGTANGCNATTATAAANTTNGTTAAA
NAGGCCACTTGGGGGNGATTNGCNCTTAAATTTGGAAGNTTGGAAGNCTTAAAACCTTT
NAANCAAATTTTAAAAATTTTGCCNGTTTANGNCTGGCCNTNNAACCTTGGCCTCCTCGG
GATTTTTTTTCTCCAANTTTACTGTGGNGGAANANAACCACCTTGNGTTNCCGTTGGGCN
CCAANNCTTTGGNNAAATTTTAAAAATTGGNAAAATTTT

Sequence 4909

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGACTTTATACCAGTCATGTGGCAGAAA
TCAGGCCTGCTCTGTGAATCGGCTTTGTGCAGATCATGAGGCGCACCTATGTTGGCAGCA
TGCCTGGTCGCATCATCAACGGCTTGAAGACTGTGGGAGTGAACAACCAANTGTTCTTA
TTAGATGANGTTGACAACTTGGGAAAAAGTCTACAGGGTGATCCAGCAGCAGCTCTGCT
TGAGGTGTTGGATCCTGAACAAAACCATAACTTCACAGATCATTATCTAAATGTGGCCTT
TGACCTTTCTCAAGTTCTTTTTATAGCTACTGCCAACACCACTGCTACCATTCCAGCTGC
CTTGTTTGGGACAGGAATGGGAGATCATTTNAAGTTTCCAGGGTTT

Sequence 4910

CCGGGCAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTAGANATGGGACTTCCTACGT
TGCTCAGGCTCGTCTTGAACCTCTGAGTTCAAGTGATCCACCCACCTTGGCCTTTCAAAG
TGCTGAGATTACAGATGTGAGCCACCACACCTGGCCAAAATAATAAAATTTTAATCAGTA
AAAAAAAAAAAAAAAAAGAAAAGTGTAATGTGTTTCATCCAANAAAGCCTTTTTTTNACACA
TNTGAAATATAAATAGATCCATTTAAATACGATATCCAGTTGAACCAGCCCTGAAGGGCT

Sequence 4911

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTT
TTTTTTTTTTTTGGAATGAACAAATATTTATTTATCTTTTATAACAAGTAAGGCAATGTTG
CTTAAAGGAAGACAAACAAACATAAAAGATTCGTTGACAATGCATTTTTTTCATCTGTTC
GGCACAATGCTTTTGTCTAATGGAGATGTGACAGCAAACCTTTC

Sequence 4912

CCGCGGTGGCGGCCGATACCTTACCGTGGCTGCTGTCTTCCGTGGTCGGATGTCCATGAA
GGAGGTCGATGAGCAGATGCTTAACGTGCAGAACAGAACAGCAGCTACTTTGTGGAATG
GATCCCCAACAAATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGC
AGTCACCTTCATTTGGCAATAGCACANCCATCCAGGAGCTCTTCAAAGCCGCATCTCGG
AAGCANGTTCACTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACCTGCCCCGGGCC

Sequence 4913

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATTTCTGCCACTGGTCT
AGGTGTCTGAGGAGCATCTTCCTGGCTCAGAGACCTTTTGCTCCAGGTGCTCATGCCGCA
AATGGCAATCTGCGCGCGAACTAATTC

Sequence 4914

CCANAGGGCGATTTGGAGNTNNACCGCNGTGGCGGCCGTTGGGAACGTNTCTCCCCAGC
CTTNGGGCCGGNGCCTTTTTTNNGNCTNCGGCGAATGAGACCTGCGGACCTGCCCCCGCGC
CCCATGGAAGAATCCCCGGCGTCCAGCTCTGCCCCGACAGAGACGGAGGAGCCGGGGCCC
AGNGCAGAGGTCATGGAAGAAGTGACAACATGCCTCCTTCAAANANCCCNTCTGGTCCCG
GCAGGGAAGAATGACCANAGGGGATTAACCTAACCGGGATCCCCANGCCCTGGCTTCTAC
AATAACCCCNCCACNCCACGACCCTTCCTGGGCCCTTTGCAGAGNAANGCCGTTCCACNG
AGGAGAGATGAGGAATGCTCTCCACCTGGTGCTGAGGCGAGGGTTGAGGATTGGGCAAAT
AGGGTACCCTNTGGCNGNTTCTAGAACT

Sequence 4915

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTGTCTAAGGCT

Table 1

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CTGGCGGCTCCGCGAATCTCATGTGCTGGGCCATCATGGACGAGAGTGGTCTTCAGCACC
GCTTGTAAGCAGTGTTAACAACCATCACACCGCCAGCAGCAATGCCCTCCTCAGCCACC
AAGGCAGGCCACAGGTAACGAGTGATGCCCCATTCTTNGACGCACCCAAGCCTCCGGCTT
CCATAACTCAACCAGCAGCAGGGAAAAAAGCATGGGTCTTCAATTCTCTTGACAAATCTC
AAGAGGTATTATACTCTTATTCCAACATCATCTCCCTCCCCAAAGAAGCGCACACAAAAC
AATTTTAAACTTATGTTTTTCTACGGAAACCTTACCTCAAAGTGATGCACAAAACCTGAA
ATTTATTATGGCTGCTTAAATGTCACATCCTGGCTTCCTAGCAGGGAAAC

Sequence 4916

GGGCGAATTGGAGCTCCCCGTGGTGGCGGCCGAGGTACACAGGCANTGATCACTGTGGGC
CTTGGAAGAGACTCANTCCTGNTCTGGCTTGGGATTTCATCCAGAGCAGTCCCAATGGTG
Sequence 4917

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAAGCC
CTCACCACACAAGGGGCAGGTGGGGGCTTGGTTGCTGACCCGGCCCAAGTCCCCACAGAG
CACCTTCTGTAGCTCCAGCTTGTCTCCCTGGCTTCTCTTTGAAGGAGAAAAATGTAAAAT
ATGCACTGAGAAAGCCAGCCCCGCCTGCTTAGTCANCCCCGGGCAGCAAGGGCCANCCAT
TGGGAAACTCAANGAAAAAGCAANGAACCCCTTTTCCAAAAAGCCCCAANAGAATGCCCTN
GGGCTCAGATCTTGTAATTTCTCCAGGAAGCTGTGATANGAGCAGGCCACACAAAGTCC
CCTACCGCCTTCCCTGCTTGCCCTCCCCCAGATGCATTGTGATNGGCATTCACCCATTTC
CCCAAATTNGAAATATTCAGCATGCCGGGCCTGGACCAGGGGACCTCTTTTAAGATGCAT
TGAAATTTATTTATT

Sequence 4918

CCGCGGTGGCGGCCGAGGTACAATAATATTATCTTTATGAGCAGCATGGAAATTTTCATTC
CTGATCTGGAAGAATAAAAGGAAAGAAAATGTCAGGTGAAAGAGTAAGTAGCCTCCAAC
TAAGCAGACAGAATAATTTTCTTTAAATGAAAAGAACATTTTAAGCTGTCTTCCCCCT
AAAAGATCAGATCTAGAAAGGGCTGGAAATGAACTGTGCCAGGAATCTGGGGGTGCTCT
CCAGTAAGGCGAACTGAGGCTCATTTGCAGCCAAGACTTGGAATCGGGATGAGACCTAA
TGGGCTATTGCTGCCATCTGGCTGCCAAAAAGTCCCTAATAGATGGATTTTCCAGGCTGA
CCCAGCTGTGGGGCGGGGGGGTCTCTGGCTTCTGTGTCCTCTGAAGCGTT

Sequence 4919

AGGTACTTNNTTTTTNTTTTTTTTTTTTTTCTGATGTTGAGGAGTCAGTTTTATTGCC
ATCTCTGGGAGGGGCTCAAATCCGGCCCAATCTCCTTCAGCTTGGCCACCAGGTCCTNAG
TGGTCTCCACCTTGACGC

Sequence 4920

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGCAAAATAATGGAAGANCCTTTTGAAA
CTTAATTATNTTCAGTTTATNAATTATTACTGCATTATNGGAGCTAGTGCAATCCTGNCA
TANGCCCTTGGGTCAAATGACCAGGGCACAAATAAAAAAAAAT

Sequence 4921

AACGTTCTCCACCGCGNGGCGGCCGAGGTACCATATCCTAAGGCTGCACAGAGCAGGAG
GCCAGCCTAGGAAACGATTTTTCCCTCCTAGACCTCTGGGCCTGAGANGGAGGGGTTG
CCATGAAGGTCTCTG

Sequence 4922

CCGGGCAGGTACTACAAGCAGGGATGTGCTGGCCTGTGCAGAGTGGAATCCCATGTGGTG
CCACTGTTGTTACTGTGTAAGAAACAGGGACTGTTCCCTTGATGGAGCTGATCATGTATGT
CAACCATGACTGCATTCTGCTGGGGTGGATGAGCAGCAGGATGTAGCAGACGGGGAGATA
CATTCGGAGGGTGAAGGCTCGAGGCTCCTCTATTGCTTGCTGCTGTGCGTAAGGGAGAT
GGTGATAGTTTTCATCTTGACTAATGGAATTATGTCGAGACAGACGATCCCTTCTTCCTC
TCTGGCGCCTGACAGGAGGACTTCTTCTGTTGCGTGCA

Sequence 4923

CCGGGCAGGTACAGGCTGGGTCCCCGTGGTCGCCAAGCCTCCTGCCTGCTCAATGATGTA
GGCCACGGGATTGCATTCATACAGGAGCCGGAGCTGTGGAGGAACAGAGGCAGGACAAAT
TCACCAAGAGCCTAGCAACATGAAGAGAGATGCCAGGAAGAAGAGAGAAGCCAGGAAACA
AGCCAACCGCACAAATCCCCACATCAGAGCAGGAGAAGATGGGGGCCTGCTGGCAGAGCTG
GGCTTGGCTGTGGTCACTCTGAACCTGCTCTTTGGTGTTTTTCATGAGTGGTGGGAAGAA
TAGGGACCATATGGAGCCCACACAGGAAGCTCTAGCAGTAACA

Sequence 4924

CCGGGCAGGTACAAACAGAATAAAAAGTCATTGCTTTTGATGGTCAGCAAACACCCAATT
CTGAGGAGGAGGAGAGGTGATGCCAGCAGGTGGATTAGGACCCCCAGTGGTTGGCGGGG

Table 1

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TGCCTGGCTTTGCGGCCCTCTCCCAGGAGGCAGAGAGCACAGCTTTAGGTAGTGTAAGCC
TTTTTCCTTTTATTTAGAATAATCTTTTTTTTTTTCTTTTCTTTTTTTTAAGCAATT
TCCCCACTCCCAAGTTGGGCCAGTAAAGATTACATGAAAAGTGGCACACCTATTGGCTGG
AATACAGATGCACCAAATGAGGATTTAAAACTTTCCGAGC

Sequence 4925

CCGCGGTGGCGGCCGAGGTACCTCTGCCACCGAGTTCAAGGGATCCTCCTGCCTCAGCCT
CCCAAGTAGCTGGGATTACAGGCATTGCACCACCACACCTGGCAAATTGTCATAATTTTT
TTGTGAAAGATGGGGTTTCACCATGTTTGGCCAGGCTGCCTAGGTTTTGTTTTTAAGAAG
TAACCTGAAATTTCTACAACACTGAATAAAAGTGGNACCTGCCCCGGCGGCCGCCTCTA
GAACTAGTGGGATCCCCCGGGC

Sequence 4926

AGCCCAGAACCAGCCCNCGNCGAGCTTTTNCACNACAACGGGGNCAACANCCCCANAANC
CGNGCAGCAGAGNAAGAGAGGCACNANGGGCNGGCAGAAGGCNGGGCACCCANNAANTTT
AAAANAAAATTTTTTNGCAACANGGGGGGGCCCCCCCCAANAAAAAAGCINNNGGAGAAG
GAGNCNNCCGACAGCAGGNGGGGGCCAAACAAGCGTGCAAANGGGGAGGGGGGCCNNCAG
ACCCANGAGAGGCCACCCGCCANGGCNGGCCAAGCACAGCAGC

Sequence 4927

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGAATCATTCCCCATGGTGAT
ATGATTGTTTAAAGAGCTGGGTCAATTGTGGATCACTTGTAGAGGTCTGGGTGTCCAC
AGGGCAAAGAAAGTCTGTACTTGTCTGGATGGGTCCACAGCTCGATCTGCGCCATCACCT
GGTTGGTGAACGAGTTACTCATCAGAAAGCTGGGGTGGCCCATGGCACAACCCAGCTTGA
CCAGCCGACCCTCGGCCAGCAGGATGATGCGGCGCCCATTTCTTCAACCGATAACCGGTCCA
CCTGCGGCTTGATGTTTACCTTCTCCACGGCGTTCTCGTTGANCCACT

Sequence 4928

ACTATAGNTTNGAAGNGGAACCCACCGCGGTGGCGGCCGAGGTACCTGAACAANTTCCA
TCAAGGACAGATTCTCAGTCTTGAAGAGGCAGCACGGNAAAGGGGAAAGATCATGAGTTT
NGGGGCCAGGTNCCCTTGGATATTGTGGG

Sequence 4929

GTATACCACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CATTAAATAAGACACCTCAGAAGTGAAACAAACCTAGTTTTTACTAAAATGATGGGATAAA
GGTAGTGTCTATGCTGAAGAGCAGCTTCACTTGTTCCTCCACAGAAAAAGGCCCAAATT
TTTGGAGGATAATTTAAAACTAAGCCAATAAGGCCAGGCACGGTGGCTCATGCCTGTAA
TCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCACCTGAGGTCAGGAGTTCGAGACCAN
CCTGGTTAACATGGCTGAANTCCCGTCTCTAATAAAAAATATAAA

Sequence 4930

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACATGGGTTATAAAT
CCTCTCTCTGGACATCAATGTAGAGTCCATCTTTCAAGCACTTTAATTTTTTTAGCTGCC
AAAGGGTNTGAATTACATTATCTGTATGCTAATTATCCCTGAAATCAATG

Sequence 4931

AGTNTGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAATCCCGC
AAACACAAGAAGTCAAAGAAATCCACAAAAAAGCAGAAAAAAGGTCACACAAAAA
CAGAAGAAAAGCAAAAAAGAAGCCACAGATATAACAGCAGATTCCTCGAGTGAGTTCTCA
GAAGAACTGGGGCTTCTGGTACACGACNTNTGACTTGGGAATGCGCAAGCAGTCGAGAG
CTTCGTAGAACTCTCCAGTTGCTCCTTGGTCGTCTCTGGCTTGTTCAGCNTANACAGACA
GCCC

Sequence 4932

AGGTACATGTGGGAGAAAACTTAAGTGTGATGAGTGTGGTAAGGAATTCAGTCAGGGCG
CTCATCTACAGACCCATCAGAAAGTCCACGTGATAGAGAAACCATACAAATGTAAGCAAT
GTGGGAAAGGTTTCAGTCGTAGATTAGCACTTAATGTTTCATTGCAAGGTCCACACGGCAG
AGAAACCTTATAATTGTGAGGAGTGTGGGAGGGCCTTCAGTCAGGCCTCTCATCTTCAGG
ACCATCAGAGACTCCACACTGGGGAGAAGCCATTCAAATGTGATGCATGTGGTAAGAGCT
TCAGTCGGAATTCACATCTTCAATCCCATCAAAGAGTTCATACAGGAGAGAAACCATA
AATGTGAGGAGTGTGGTAAGGGCTTCATTTGTAGCTCAAATCTTTACATTCATCANAGAG
TCCACACAGGAGAAAAACCTNTAAATGTGAGGAATTGTGGTAAGGCTTTAGTCGGCCTT
CAAGTCTTNGGGCCCA

Sequence 4933

CCGGGCAGGACAGACATGGCTAATGGACCAGGGCCTCTGTGGTCAGAAGAGAGTCAAGCA

Table 1

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AGCAGGCGGCAGATCTGGGACCAGCATGCCCACCACCCAGTCAGGCCGCTCTGTTTCGTG
ATGTTTTGGACACCCAACGTGTCTGAGAAAATCTTGATAGACATCATCGGAGTGGACTTT
GCCTTTGCAGAACTCTGTGTTGTTCTTTGCGGATCTTCTCCTTCTTCCCAGTTCCAGTC
ACAGTGAGGGCGCATCTCACCGGGTGGCTGACGACACTGAAGAAAACCTTCGTCCTTGCC
CCCAGCTCTGTGCTGCGGATCATCGTCCTCATCGCCAGCCTCGTGGT

Sequence 4934

CCGGGCAGGTACCCCTTTTCACTCAAAGATGTCCCGGATTGGATAATAAATTACATAGC
TATACCCTGTCCATAGTAGAACCTGACTACCTTTATCTACGGATTTATTTATAGTTTNGT
CACACGGTCGAATAGCTCCTTCTTCTCAGTAATAACAAGCTTTTTTGGTTTGAAATATGGA
TCCTCTTCCCAGCATAATAATGTGATTTTTTTTTTATTCATTTTATGTTATTTATATTCAC
ATTTTTTACTTAAAGGAAAATGCTGCTATTTGTGATGAAAATTGGCTCGNCTTGAGGAA
AAATTTCTTAAAGCAAAAGAAAAAAG

Sequence 4935

CCGCGGTGGCGGCCCTCGGCCTCCCAAAGTGCTGGGATTACGGGCACAAGCCACTGCA
CCCAGCCACAAACAGATCGCAGATCCAGGTTTCTTCAAACCTGGGAGCATCTGCTTAATTT
TCCCATAAAATCAGTCTTATTCTTCTGACAGCTCTGAGACTCCTCCGGCCACGACTAGG
TGCTGTCTTGGAGGAAACGGTGGAGGACGGCCGCACAAAANCCAATCTACCTTGATGAA
AACTNCGTTCCCTTTCTCGCCAGAAACATAAAATGCGATGGGAGCTACGGGCCACCCGC
TTGCCCGAAGACAAAAATGGCGCCGACCCCGC

Sequence 4936

GCTCCTTTGACAACAGTAGTCTCTGCTCCGGCGGGCGGGGACAAGGCGGTGGTTCTGTGGG
ATGTGGCATCAGGGCAGGTCGNGCGCAAATTCGGGGGCCACGCAGGGGTGAGTGAAAGCC
TGGAGACCCTCATTGAGTGAGGGGGACCCGTATTAGCGCATAGGTGGTGACACGGCCAC
CCCCATTNACCGGAAGGATCCCTTCCNCAGATGACGATCCCCCACTCCTGCATGCCATN
NNTAGGCAGCCACCAACCC

Sequence 4937

ATGACATGGCTCAGCTTCGGTTTAAAAAAGGTCAGTGTCTATCTGGAAATTTCTATGTGA
GAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGAGGAACTGGACACGCTTTTCACCA
CTGCTGGACTGGAAAAAGTTCAGAATCTGGTGGACCGCCGACTGCAGGTGAACCGAGGGA
AGCAACTGACAATGTACCTGCCCCGGGCGGCCGAGGTACAGAAAAATCACAGTAATCCACT
CCAATGTCTGTAAAGTCCACAAAGGTAGAGGACAAAATCTGGAATGCCTGAGGATTATTT
TTCTTTAGTTTTTTGGCACACATTAAACCCATCTACAAT

Sequence 4938

ATGACATGGCTCAGCTTCGGTTTAAAAAAGGTCAGTGTCTATCTGGAAATTTCTATGTGA
GAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGAGGAACTGGACACGCTTTTCACCA
CTGCTGGACTGGAAAAAGTTCAGAATCTGGTGGACCGCCGACTGCAGGTGAACCGAGGGA
AGCAACTGACAATGTACCTGCCCCGGGCGGCCGAGGTACAGAAAAATCACAGTAATCCACT
CCAATGTCTGTAAAGTCCACAAAGGTAGAGGACAAAATCTGGAATGCCTGAGGATTATTT
TTCTTTAGTTTTTTGGCACACATTAAACCCATCTACAAT

Sequence 4939

CCGGGCAGGTACGCGGGGGCGGAAGTGCGAGGGCCCAGGTGGCTGAAGGGGCCGTTAGGA
ACATCCAAGCGGTGGGGCACAGGCAGATCCCCGACCTGACCTGGACCACCCTTCTCCTCT
TGGCCCGCCCCCTTCAACTCGCCTCCGCTTANGTCTTGGATTGGGCCCCGCCCCCTGACCT
GAGCCTGGTCCTTCTTCAGGCACTTGACCCTTGACCTNCCGGTGGCTCCCCCATCTNNTC
AGGCGCGAATGGCTACGGGCGCCGGATGTACCTCGGCCGGTCTAAAAACTAGTTGGATC
CCCCGGGCCTGCAGGAATTCGATATTCAAGCTTATTGATACCGTTGACCTCGAGGG

Sequence 4940

CCGGGCAGGTACGCGGGGGCGGAAGTGCGAGGGCCCAGGTGGCTGAAGGGGCCGTTAGGA
ACATCCAAGCGGTGGGGCACAGGCAGATCCCCGACCTGACCTGGACCACCCTTCTCCTCT
TGGCCCGCCCCCTTCAACTCGCCTCCGCTTANGTCTTGGATTGGGCCCCGCCCCCTGACCT
GAGCCTGGTCCTTCTTCAGGCACTTGACCCTTGACCTNCCGGTGGCTCCCCCATCTNNTC
AGGCGCGAATGGCTACGGGCGCCGGATGTACCTCGGCCGGTCTAAAAACTAGTTGGATC
CCCCGGGCCTGCAGGAATTCGATATTCAAGCTTATTGATACCGTTGACCTCGAGGG

Sequence 4941

NGGCCGGGGTTTGGGGNCCGGGGCCCCCGGGNNATATTTTTTCTTNCCTTTTTTNCCC
CCCTTTTTTNCNTTTTTTTTTNNCCCCNTTTTTTTTTTCCCCTTTTTCCCCCTTAAATTT
TTGGGAAAAAATTNGGGCCAATTCCGGAAGGGGGGGCN

Table 1

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Sequence 4942

NGGCCGGGGTTTGGGGNCCGGGGCCCCCGGGNNATATTTTTTTCCTTNCTTTTTTNCCC
CCCTTTTTNCNTTTTTTTNNCCCCNTTTTTTTTTTCCCCTTTTTCCCCCTTAAATTTT
TTGGGAAAAAATTNGGGCCAATTCCGGAAGGGGGGGGCN

Sequence 4943

GCTTCCCCACCCGGCGGGTTGGGCCGGGCCCCGGCCCCGGGGCCAGGGTTACCGCCGGGG
TTGGGGGAACCCCCGCNANGCTTCAAGCTTACAAGCAACAAGAATCAAGCCACCCATTGA
AAGCTTTTTTCAACGGGGNCCTNNGGTTTTTTTCTTGGCTTCCCTTTGGGTTCCTGGGGG
NTGGTTNAAANNNAANCCCCGAAAAANATTTTTTTT

Sequence 4944

GCTTCCCCACCCGGCGGGTTGGGCCGGGCCCCGGCCCCGGGGCCAGGGTTACCGCCGGGG
TTGGGGGAACCCCCGCNANGCTTCAAGCTTACAAGCAACAAGAATCAAGCCACCCATTGA
AAGCTTTTTTCAACGGGGNCCTNNGGTTTTTTTCTTGGCTTCCCTTTGGGTTCCTGGGGG
NTGGTTNAAANNNAANCCCCGAAAAANATTTTTTTT

Sequence 4945

CGTATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CGCGGGTCTGATCGCTAATGACAGGTTTGGGGTTTNCCTTGGTTTATCAGCCACCCAATTC
ATGGTTTAAAATACCAAGTATTGTTAGAAATGGGTTCAAATCTAGGGAAGGCATTTTCGN
TTTGCAAAGAAACCTGTNTTTTTTANCAGACTTTTAAAAGATGGATTTTTTTTTTTTTTT
ANAAAAAGNCTTNGTTATTTTTTAAAAAAAACNTTTTGAAAAGGGGGCANNTTNTTGGGG
GGGGGGGGG

Sequence 4946

CGTATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CGCGGGTCTGATCGCTAATGACAGGTTTGGGGTTTNCCTTGGTTTATCAGCCACCCAATTC
ATGGTTTAAAATACCAAGTATTGTTAGAAATGGGTTCAAATCTAGGGAAGGCATTTTCGN
TTTGCAAAGAAACCTGTNTTTTTTANCAGACTTTTAAAAGATGGATTTTTTTTTTTTTTT
ANAAAAAGNCTTNGTTATTTTTTAAAAAAAACNTTTTGAAAAGGGGGCANNTTNTTGGGG
GGGGGGGGG

Sequence 4947

CCGGGCAGGTACTTAAATCAGAACAGAATGATTTAAGGCTACAGATGGAAGCCCAACGCA
TTTGCTCTCTCTGGTTTATTCAACTCATGTGGATCAGGTTTCGTGAATATATGGAAAATG
AAAAAGATAAAGCTCTTTGCAGTCTTAAAGAAGAGCTTATTTTTTGCTCAAGAGGAAAAGA
TCAAGGAACCTTCAGAAAATACACCAGTTAGAGCTACAGACTATGAAAACACAAGAAACAG
AGGCCATGGAGGACGAGGAGAGACAGAAGAAGCTGGAGGCCGGCAAAGCCAAGCTTGCCC
AGTTTCGACAAAAGAAAAGCTCAGTCGGATGGGCAGAGTCC

Sequence 4948

CCGGGCAGGTACTTAAATCAGAACAGAATGATTTAAGGCTACAGATGGAAGCCCAACGCA
TTTGCTCTCTCTGGTTTATTCAACTCATGTGGATCAGGTTTCGTGAATATATGGAAAATG
AAAAAGATAAAGCTCTTTGCAGTCTTAAAGAAGAGCTTATTTTTTGCTCAAGAGGAAAAGA
TCAAGGAACCTTCAGAAAATACACCAGTTAGAGCTACAGACTATGAAAACACAAGAAACAG
AGGCCATGGAGGACGAGGAGAGACAGAAGAAGCTGGAGGCCGGCAAAGCCAAGCTTGCCC
AGTTTCGACAAAAGAAAAGCTCAGTCGGATGGGCAGAGTCC

Sequence 4949

CGCGGTGGGCGGCCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCAC
ACTCTACAAAGGCAGTCAACTACATGACACATTNCGCTTCTGCCTGGTCACCAACTTGAC
CGATGGACTCCGTGTTGGCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAAGCC
TGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCA
CCTACCAAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAAGTTTATCAACCAAC
AAGCAGCTCCAACACCCAACACTTGTAACCTGAATTTNACCATCACCAACCTACCATATTC
CCAGGACAAAAGCCCAGCCAGGCACCACCAATTACCAAGAGGA

Sequence 4950

CGAGGTACANGGCTNANAANATNGAAGTATCAAAGTCACGTCCTCTGTTTTCTAACAQTGT
TTGATAGACAGCTNNGTGGAATCTGTCAAAGAACAATACACCATCCTNTCTTTNTTCTT
NGGCAACTGATCCTTGATAAGAGTCTTGGTGCGCCTGAGAAACCAGCCAGACATCTTTTT
GGCAAGTCTTTGCATGGCCTTNCGGCCAGTGGCTAGTTCTCTCTTTGTTGCGGTGTGTCT
CTGACCATGTTCTACTGGGTCAAAAACCTGCTTCTTGAAGTANGNCCCACTCCCTAAAAG
GCCTGGCNCAGCCCAGTNCATAACACACCACAGTTCCTTCATGTTGTTCTGAAAGATGGN

Table 1

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TCCAGNNAGGCCAATGCGGACATTNCATTTNAAAGCTTNCATAACTTCTGGTNCTCTAGC
TTTNGGATNCTTGATTCTATGANCCCTTCATNCACAATGACAGGCTGACCATTCCAAAGTG
TTAAGNTCATCCNGGCATTAAGCGTAAGTGGTTTCATAAAGNTNGCTAGAAGCAATTTCA
CAATTCCTTTGCTTTTAACACCGAATTNAANTCATNATCCTNTTCTGGGNNGCCATTGA
AAAAANAANTGGACTCTGAAAAAATCCCCAGNTGTCCAATTCATGCCNTTTTTGCTGGA
AAAA

Sequence 4951

AATACGACTCACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGGGAAAGGGC
CAGGAAAGGGAGTCAAGCAGGAGCCGTCTGTCCGAACGGAGGCTAGGTAAGAATATTTCA
CCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAACCATATGGACCCAACCTCTCCTT
ATATGAGAACGTTATTAGATTCCATTGCTCATGGAAATAGACTTATTCCTTATGATTGGG
AAATTTTACCTAAATCTTCCCTTTCACCCCTCTCAGTATCTACAGTTTAAAACCTGGTGGA
TTGATGGAGTACCT

Sequence 4952

CGCCCGGGCAGGTACCGGAAGCAGCGAATGGAAGAGATGCGGCAGCAGCTTCACAAGGGG
CCCCAATTCAAGCAGGTTTTTTGAGATCTCCAGTGGAGAAGGGTTTTTAGACATGATTGAT
AAAGAACAGAAAAGCATTGTCATCATGGTTCATATTTATGAGGATGGCATTCCAGGGACC
GAAGCCATGAATGGTTGCATGATCTGCCTTGCCGCAGAGTACTGTTTGCATTAATAAATT
AAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCATGCCCGCCTCTTCACGGGCAGGTCA
ATTTCACTGGTTAAAAGTAAAGAGACAGCTGAACCCCTCGTGGAGCCATTTCATACAGGTCC
CTAATTAAGGAACAAGTGATTATGCTACCTTTGCACGGTTAGGGTACCTCGGC

Sequence 4953

AGGTACCGGGAACCAAACCTCTCATTCCCCAGGGGCCTAAGCCCCCGTGGCCAGGCCCTT
CTCAAGTCAGGGTTCCTGCACATTCACAGTTACGGGTGGCCCTGGGAGTAACACCTGGCA
CCCAAACAGGTCACCAGAGTCCACACATAGTCCACCTGCCCTCCCTGCGTAAGATCAGCT
CTTCTCTCTCCCGACGAATAGATCAGGGTCAATGATCCCTGCCAAGATGGCGACTGCTCC
AGCCTGCTGGTCCAACCTGTCCAGCCACAGCTGTTGCTCGAAGGCTTGAAGTTCAATGGG
ACCTCTCTCCGCTTTCTACAAACTGGTTCCCTTATTTTTATGTTTATTTATTTGGGACCG
AGGTCTGGCTCTGTACCCAGGCTGGAGTGCAAGTGGTGCAATCACTGCTCACTGCAGCA
TCCACCTCCCAAGCGTCCACCCATCCTCCTGGCCTCAGCCTCGGAACAAGCTGGGGTACC
TGCCCGGGCGGCCCGCTCTAGAACTA

Sequence 4954

CCGCGGTGGCGGCCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCG
AGGCGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCCAACACGGTGAAACCCC
GTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAG
CTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAG
CCGAGATCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAA
AAAAAAAAAAAAAAAAAAGTACCTGCCCCGGGCGGC

Sequence 4955

GCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGCTCACTAGAAGGAGCCCCCTGACCCCT
TCTTCCAAAATACTTTTTGTCTTTGTCTTCGTTTCTGCATTCATCCCCCTTCGTTCACTC
CCATAACAACCAACAGCGACAACCTGGCACCTAGGACAGGGACCGTGAGTGAAGGTCTGCT
GGAGCAGAGAACTGACACTGGCAAGAAGAACGAGAATGAGAAACCCTGCGACGAGTCTG
CTGACAGCTGATATAAGTCTGCAAAATCAGCTGGACCACCAAACGGCAATTGAGAGCTGC
ACAACCTGCAATTACCTTTATTCAATTAATGCAAAAACAAAAATGGGGAGATGTTACAGG
CCGAAAGAATGAAGGTCCGTGACCAACTCAAGTATACCACTGAAGGCTATATGAGCAAAC
AGAAAACCTGTTCTCATGAAAGCAGGATGTTGGAAAACCT

Sequence 4956

CCGCGGTGGCGGCCCGGANGTACCACAGGACAATCCCATTAGATGTATCCCCCAAATNGNA
AAAGTTAATTTCCCCAACCTTAAACTGCTGGGCTTAAATTTAGACTCANGGGAAAGGAAT
CCAAAAGCCTCCCCGCGTACTTNGGNTTTTTGTTGNNTTCTNNNTTGGGAAATTGGCATGT
ATTCTGCAANACTTGTTTTANGCCAGTTTTACCCCATCTGCTAAACNCAANGCATANTC
TGTATCAACCATAAGAACCCATNTGTAAAAACATCAATGTTGNNTAGTCAAAGACCACTGT
GTTACAACCAAATCAGGTNTTGTATGATTACATACATNAGACAGAGCAATGGTGGCACA
NGNTGANCATGACAATGGCTCATATGTTTGACGCAAAAGTAAACAAATTCATGGATGCAT
TCAGGAGGAATGCCTTGCATGGACAAGGGTAAAGTTCAATTTAAAA

Sequence 4957

Table 1

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CGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGCTGATGCCATTTTCAGCCTCAGCACG
CCTGCACCCAGGCGCTCATTAAAACAGCATGTTGCTCCCCACTGCCTCGTGTGTCTGTT
GGCGCGCTGTCGGGGTTTCGAACCGATAACAAGAACCTTCCACCTACCTGGTGTCTTGGCCT
CATCTATAAGCAGCTTTTCCACTGTCCTGAAACAAGATAGAGAATCTGAGCGGCCAGTCA
TCTGCCCTAAGTGCTGCCGCCGAAGACTGAATGTCCTGGAAAGTTTGCTGTCACATCTCC
ATTATGACAAAAGCATTGTGCCGAACAGATGAAAAAATGCATTGTCAACGGAATCTTTTA
TGTTTGTCTTCTTCTTAAAGCAACATTGCCTTACTTGTATATAAAGATAAATAAATAT
TTGTTTCAATTTCAAAAAAAAAAAAAAAAAAANAAGGTACCT

Sequence 4958

CCGGGCAGGTACGCGGGGGGTATGAAGGAGCTGGCCGTGTTCCGGGAGAAGGTCACTGAG
CAGCACCGGCAGATGGGCAAGGGCGGCAAGCATCACCTTGGCCTGGAGGAGCCCAAGAAG
CTGCGACCACCCCTGCCAGGACTCCCTGCCAACAGGAAGTGGACCAGGTCTGGAGCGG
ATCTCCACCATGCGCCTTCCCGGATGAGCGGGGGCCCTCTGGAGCACCTCTACTCCCTGCA
CATCCCCAACTTGTGACAAAGCATGGCCTGTACTTATTGGCACAAATTCGGGCAGCCTCC
AGGGCTTTAAGAGGGACAGCTTGCTCATATTCATCTGACACCATGTGGCCACAAAGCGGA
AAACTCATCCCAACTTTTTTGGCCCTTTTTTTNCCGCCCAAGGGNTCAAAAAA

Sequence 4959

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTNCTATAATGGTNCCCATCT
TAATTTGAAAGCGTTNGANAATCTTTTAGGACAAGCACTGACGAAGGCACTCGANGACNC
CAGCTTCCTGAAAAGANGTGGCNGGGACAGTGGCTACNGAGACANCTGGTGTCTTGAACG
TGGANAATTNCTTGCTCCTNCAAGGCACCATAAGAGAGAAGATTNCTTTGAAAGCTNNGN
CTCTNNTGGGCTCGAGGNCANTGACNAGCTGNTCCTCTGCATATCACNTTNAGAGGGGGG
CNGTGAAGGTTTTGAA

Sequence 4960

CCGGGCAGGTACTTTATAGCATTTGCCCCACCCACAGCTTAGGTTTTTCTGTCATCCTC
AGATCCCACAGGCATTGCGAAGAAGCCGCTCCCTATACCCAGGTATAACTCAAAATCCAA
AGGGATAGGGCCAGGATCCCTATTCTTACCCCATCTATTCTCTGTTGGCTCCAAGAGCTA
CCCCAGAGACCTTAAACAGAAACAGTAGCTGAGGCTTCTTCTTAGATACCTGACTAGGGA
AGTTTGTCTCTCCTTTCTTGCCCAACCAGGTCAAAGTAAATGTGAGTTGACAGCTCAAA
GCACTTGTAAGTGTGCCCCCTCCCTACCTCTACTCCCCAAAATGGAANCATTGGGANAG
GGGAAGGCCCCCATGGGGTCAAGAAGGGCACCGGNAGGTTNTTGCAAATNANTTTTTGTT
TT

Sequence 4961

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTCTTTTTTTTTTTT
TTTTTTTTTGCTCCAAACAGATTTATTGAATACAGCAAAATTCATATACAAAGGGACCTG
GACCTGCTGCTTCAAAACATGATNNTTTTTTNCTAATATCTTGATAGTCGGNCCATANAG
CATTANAAANGCAATTTGNCTCTTAAATNAAACCANAAAAAGTGCCTAATGCACCATT
AAATTGAATGGGCCNTAACCTACTGGAACCTTTTANGTAGTTCTNATAAAGGTAATTTAAC

Sequence 4962

ACCGCGGTGGCGGCCGAGGTACTGATGAACCCGAACAGGAGTTGCTTCTGTTTTAATTCT
ACTACTACTGGNGCATGATTTACAGCTAANCCANAGAGGANTCTGCNATGCCNAGTGGAG
GAAGGA

Sequence 4963

TGGCGGCCGAGGTACTGCACGACGTGAATCATGACATTGGAGAAGACACTGACGTAGAGG
CACTCGAAGAGTCTTCGTAAGCTGTGCAGCCACAGAAATACTAGCACTAAGAATGCANAC
AGTGCCAGCTCCCCTCCCTGGAAGTGTGCCGCCCCGAGAATTCTTAGCAAACCATTTGAAG
CCAGCTTTGGAAAAGGTGCTCCCAGGAACAAGAGATTGAAGTAAGGCACCAAGCANGAA
GCCATTCCACAGCACTGAGATGATATAAAAGTGGGAAAAATATCTCTTGGGGACATCAAA
GGCTCGGCAGGCGGCGGGGCGCGACGGCTCCCCACACTTGGTTTTCCCATAGCCGGAT
CAGGTCTTGGAAGATCGCGCAGCCCGGGAGCAGGCCGGGC

Sequence 4964

GAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGGGCATGACAGGCTGGG
AGGTGGCTGGTGATCACATTTACACAGCTGCTGGAGCCTCAGACAATGACTTCATGATTC
TCACTCTGGTTGTGCCNNNATTTATACCTCCGCAGTCGGTGATGGCAGACACAGAGAATN
AAGAGGGTGGCCAGAATCACATTTGTCTTTGAGACCCTCTGTTCTGTGAAGTGTGAGCTC
TACTTCATGGTGGGTGTGAATTCTAGGACCAACACTCCTGTGGAGACGTGGAAAGGTTCC
AAAGGCAAACAGTCCTATACCTACATCATTTGAGGAGAACACTACCACGAGCTTNACCTGG

Table 1

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GCCTTCCAGAGGACCACTTTTCATGAGGCAAGCAGGGAAGTACCTCGGCCGCTCTAGAAC
TAGTTGGATCCCCCG

Sequence 4965

CCGCGGTGGCGGCCGAGGTACACGAAGGTACGATTTACGAGGTGAGGGGCAATAAGTAAA
TGACTCGCACAGATGGTGTTCATGCTCAATGTTTCTCTTCTGAACAATTTTCAGATTTGG
TGTTAAAGCACCTTCTGGCCAGGCGTGGTGGTTTATGCCTGTAATCCCATCACTTTNAAA
AGGCGGAGTCCGGGTGGGGATTGCTTGAGGCCAGGAGTTCAAGACTACCTTAGGCAACAT
AGTGAGATGCTCGTCTCTATTAAAAAAGAAAAAAGGGGACCCAAGGCC
ATATATCTGTTTCATTCCCTAGAACTCTCCACAGTGTGAGTGAAGACTGCAAATCCAGT
GGTCTACATTCACAGATAATTCCCTAGCCTTTGGTTAGTGAGGGAGAATGGGATGG

Sequence 4966

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGCTCACTGCCGCCCCGC
CCCCCCCCGCGTACGTCCAGGCACCGCCAGCCACTGTCTTCATGCAGGAACCACAGTGCCA
GATCCCCACAGCTCGTCTCTTCATCTTGGTTTTGCCACAGAAAGAGCAAGTGTACCTCGG
CCGCTCTAGAACTA

Sequence 4967

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACTATGCTTTACTAATAG
AAATACCTCTTTGCTGGGGGAGGGGAGTGCTTCTGAATAGAAATTACCCACTCTGAGTTA
CAGCTTTAGTGGCATATTNNTNGNGATTTAAATTTACAGTAAAAACAAAAACAAACNA
AAACCAACCCTTTTCCAATTATTGACAAATCTATTTTTTTTAAAACCTATCTTAGATAG
ACCATCTCCCTACGATAAGATGGCAGAACAGAATGTCAGGAGGAGAGGTTTGGTCTGAAG
AGGGTTATCTGTCCAGGAGACGCTTTATCCCCAAAGCAATGCGCTTCAGTTTGCTGTGCG
CAGCAGAGCACCTGTTGGGGGGAGAAAAGTAGAGCACCTAGAAAGTCCATGAACAAATTC
CAGCAGCAAAAAAATTCCTACCC

Sequence 4968

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGNCAGGTACGCGGGGAGGCTTGA
AGTGTGGGGAGAACTTGGTCTCCTCTNTGCTATATGAAATATGGGAGACGACAGACCGNT
TGTGTGCAATGCCCCGGGCTGTGGACAGAGATTTACAAACGAGGACCACCTGNCAAANTC
ATTAAACCANCTTGATGATGACATTGAAAATTTGGCCCNNGNCCCAGAACTGACTCACCC
ATAANTGNNGATCAAACNCCTACTCCAACCTAGA

Sequence 4969

CCGCGGTGGCGGCCGAGGTACAAAGGGCAGCCCTGCACGCTGGAGGGACTTCCACTCAGC
CACAATGCTGGGAAGTCACATGTATGTCTTTGGGGGCCGTGCCGACCGCTTTGGGCCATT
CCATTCCAACAATGAGATTTACTGCAACCGCATTCGAGTCTTTGACACCAGAACTGAGGC
TTGGCTGGACTGTCCCCCGACTCCAGTGCTGCCTGAGGGGCGCCGGAGCCACTCGGCCTT
TGGCTACATGGGGAGCTGTACATTCCTCATTAGATTGTGGGTTTCAAGTTTCCATTTGCA
ATTTGAATGTTTCCAGAAATCTCTTGTCTTAACCAAACCTCTCTCTCCAGGCACGATTCT
GCACATGAGTCTGATCTGTGTANAGTAGTATCATCAAAAATGCCAAATTTTGATCAGGAA
TATACCTGGACTACTCTCTTTCAA

Sequence 4970

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTAATCCTGAAGAA
AAGGTCCTAATTCCTTCCATGCTGAAATGCTAGCTTTGGTTTCAGAGAGAGACTTTATTG
CAACTGTGACCACCGTCACTGGTGAGCACTGCTGTTTCGGCCCCCAGCGGACTTAAAAGAC
TGGAATGTGGTAGTGGCGGTCGTTCTCGGTGAGCAGGGAAGATCTCCGGCCAGTCCCTGA
GAGGCTCCTCTGGGTAGCAGACTTCAAAGTCTCTGGAGTTAACTTGAACAGTCTGAACA
CTTTTATCTTTACTTCAAGGGAGTATCCAAGTATAAACATATCAATCTGCTCTAGTCCAC
ATGTGTCGCCTACAGAATTCAGGTGATTCATCATGAAGCTCAAAGGATCAGAGGATGTCT
CCCTGGAAAACAGGAGTCTAAAAAGACTGGGAATGACCTTTTTAGTCTTC

Sequence 4971

CCGGGCAGGTACCTGTTTAGCCACGATGGCCGCCAGGCGGCCAGGAGATGGCCTCGACC
ATCAAGCACCAGGACCTGCACCTCCGCCATCTTCGGCAGCCGCTTGGAAGACCCCCGCGT
ACTTTTTTTTTTTTTTTTTTTTGGAGCAGACACAGACACAGATGTTTATTCCAGGAAGAG
GTNTAAGAAACGAGCTTNTTANAGCATNTTTCACGGGGCAGCCAGTCTGGGGCTCTCAG
AGCCAGCCCCCTCCCTTCAGCAGCTGAAGCAATAGCGCCCCCATTTTACAGGCGGAGCAT
GGAAGCCAGAGAGGTGGGTGGGGGA

Sequence 4972

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGNATTTTGTAGTANAGACAGGGTTTCA

Table 1

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CCATGTTGGCCAGGATGATCTTGATCTNTTGACCTNATGATCCGCCCGTNTTGGCCTCCC
 AAAGTGCTGGGATCACAGGCGTGAGCCNCCACACCTGGGCCCTCTATTTATTCNNCTTTT
 TANAGNANGAAGNNNAANNNACTTTTTTNAAAAANGGGCCNCAAAATATTTATTTTAA
 ATTTNAAANATTCTTTTAAACCCTTTTNCCCCGCCAAAGGGGGGAAAAAAAANATTNGG
 GNANATTNTNTGCCCTTAAATAATAAGNGGTTNGAATTNGAAAAGGCCNNTTCCNAC
 NATATTTGGGAAACCCACGNNAAAAACCANATTTTCCAACCATTTTTTTTTNTNTTANAA
 AANAAGGGGCCAAAAAAAANATTTTTTGGGAANGAACCTTTTATTAAAAGGCCTTNATN
 AATTGGGGTTNANGNCNTTTAATTTTTNTTTTGGGGGGTTGGGGNNGGGTNAATGCNANA
 AATTGTNAANNAAAAAAANNNGGNAATTNNTTTAAACCAATTTCTTTCTTTTAAACNTNG
 NGGNCAATTGGNACCCACCAATTTTTTTTGGGNTTAAAA

Sequence 4973

ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAAT
 TCCGGAGGCGGCATTCGGTGGTCAGAGGCTGTGCGGCTGCAGGTAGAGTGTCTTAGGAA
 CCTAGGAAATAACTCGGAACCTGTAACGTCCCCTGGTTTGGACATATTCCTCTCCTGAT
 CTGGCCTCATCTGTTCCAGGGAGGTGGGATTGAAACATATGCAGTAATGTCACCTCAAAA
 GAGAGTTAAGAACGTCCAGGCACAAAACAGGACTTCACAAGGTAGTAGTAGTTTTCAGAC
 CACGCTTTCAGCCTGGAAAGTAAACAGGATCCAAGCAACTCGAAGAACATCTCAAAACA
 TGGACAAAACAATCCAGTGGGAGATTATGAACATGCTGATGATCAAGCTGAAGAAGATGC
 TTTGCAAATGGCAGTGGGATATTTTGAAAAAGGTNCCATTAAAGC

Sequence 4974

CGAATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACAAACTAGTGGGGAAGGTTTTTTT
 AAAAAGTTTTGCAGTCTTGTAATTTACCTTTTTTAAAAAATTTATTTTATTTTTCTGAGAT
 GGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGTGCCATCTCAGCTAACTGCAACT
 TCCACTTCCCAGGTTCAAGCGATTCTCCTGCCTTAGCCTCCCAAGTAGCTGGGACTACAG
 GCGCATGCCAGCATGCCTGGCTAATTTTTGTATTTTTTAGTAGAGCGGGGGTTTTGCCATG
 TTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATCCGCCTGCCCTGGCCTCCCAA
 GTGTTGGGATTACAGGCATGAGCCACTGCGCCCAGCCTTGTAATTTACCTTTGATGGTGA
 CCTGAAATGCAGTATGATCCTATATGTGGCACCAGTAGTAATGTTTCAGTGTGTTGCTGAATT
 AATTCTGGGCAGCACTAAGAAAATCCTCTTTCCAGTCATATTCTATAACACATTTCCCA
 TTTGCCACAAAACCTGCAGCTTTTTTGGTCCAGGTAAATGACATTTGCTGCCATTTTGATG
 ATTTAAAAATGGTCGNNGGGAGTTGAAACATAGTCATGAATTTTCAGGGATTCTTGACAT
 GTAGACAGTCATNCCANNGAAAAGANCNCTTCACTTAAGAAGAAGTTNAAGTNAGANGAA
 ACAGGTTTATGCTAAAA

Sequence 4975

AGGTACAAGGCCAAGAACAGGGAGACAGGGCAGCTGGTGGCCCTGAAGAAGATCAGACTG
 GATTTGGAGATGGAGGGGGTCCCAAGCACTGCCATCAGGGAGATCTCGCTGCTCAAGGAA
 CTGAAGCACCCCAACATCGTCCGACTGCTGGACGTGGTGCACAACGAGAGGAAGCTCTAT
 CTGGTGTGTTGAGTTCCTCAGCCAGGACCTGAAGAAGTACTACTCGATTGTCAACGTCAAG
 GAGTCGCAGGTCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAAGATTA
 GTCCGCCGTAGTCGGTGTACCTGCCCCG

Sequence 4976

AGGTACGGGTGCCCCCTGGCTTGGCACTGCAGGACGTGTCTCGTTTTATCTTTCCATTTC
 AAGTGCTGGGGGCATGTGGCTCGGTCAATTTTGGGACCATCTGTGGAACCACCATGTGTG
 ATCAGACACCCCAACACACCCGAGGCACAGTGGTGCANAGGAGCGTCTAATCTTTCCAGGG
 CAGGGGTGGAGGGATTAAAGGTCAGGGTGACCGACTCACACAGGACTCGCAGCTGGACGC
 TACTGTTCTGTGCAAGAACTCGCCGTCCACCTCGAGAGTGGCACTGCANAAGAAGCTGC
 GTCCGTCGTCAACTCTCGGTAGCATTTAGCNTGAAGTTGAGCTGGCTGCCCCGGGGCCGC
 GGCCGCTCTANN

Sequence 4977

CGCGGTGGGCGGCCGCCCGGGCAGGTACTTGCCGCCAGCCACGCCCGCGCGCCAGCCAC
 CATGCTAGGTAACAAGCGACTGGGGCTGTCCGGACTGACCCTCGCCCTGTCCCTGCTCGT
 GTGCCTGGGTGCGCTGGCCGAGGCGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTAA
 GGNNTAACAGATGTATTTCAAATACAGCATGTTTTACAGGAGTTCACAAGCTTTTCATNT
 NTAAAAAAAACCTTCAACTACCTGACTGTTCCATTCCACCCCANACAAACCTGACATGA
 CTGAACTACTTCATGTGTTACTTTCCCAAAAATAAAGTTAAAAAAAAGGAACTCATGA
 TAAATGCAGATCTCTAATACAGTNTCTAACACAAAAGAAGCTTTAAAAAGACAGTTTCTT
 TCCTTATTTGATTAGCTAGAAGTTTATCTAGGTAAAAGCAAAAAAAAATTTACAAAGCA

Table 1

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TAACATAACATTGGGGTTCTTTTTTATACTCAAGATGTTTAACTGTTCAAAATGACAACAA
TTACATCTTTTAAGAGTATAATAAAAATGGGGGGAAAACAGCNAACCCAACTGACAAAAG
GGTAGATGCTAAATAAACCAAAGTTTTTTTTTTTAAAGGGGTNGGGAAGAAATNCACAGCT
TGGGGGAAATCTTAAAAATTTAAAAA

Sequence 4978

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGCAACCTAG
CAGTTCAACCAATTTCTCTTTTAATAAAAGCTGCACATTACAGTGGTATAAATTTATCTT
TTAAACACTCCACATAAAAACATGTGCACCCTCTCCTTCTACATTTAATCATTAGTAGTC
TCTAAAATGGTAAAATAAACTGAATTTATATTAGCAAATGAAAGTGCAAGTTTGTACGC
GGGGGGTGGCCTTTGGGGCCGAAGTGGGCGTGCGGCTCGCGCTGTTGCGGCGCTTCCTGG
TGACGGAGCTGCTCCCCCGTTCCAGAGACTCATCCAGCCGGAGGAGATGTGGCTCTACC
GGAACCCCTACGTGGAGGCGGAGTATTTCCCCACCAAGCCGATGTTTGTATTGCATTTT
TCTCTCCACTGTCTCTGATCTTCCTGGCCAAATTTCTCAAGAAGGCAGACACAAGAGACA
GCAGACAA

Sequence 4979

CCGGGCAGGTACCCAGCCCCGCAGGGTCCTGGAGGAGGTCTCATGTCTGTTCTGGGGCTC
CTGGGGCTCCCTCCTCCTTTGGGGGTGGCTCCAGGAAAATTTGGGGTGAAGGAGGTGGCT
TCTTCACTGAGTAGGGGGAAGCCGGGACCCCCACCACCAGGAAGTGGTTCTTCTTCCGAA
ACAATCTCCACAGGCCCGATGGTTGCCACGCACATCCAGGTCCCAGATATGGAGGCACT
TGGCAAGCTGGGTCCAGGTGGTGAAGTCATCATCTTTCTCCATTTCGAATAAAGGCCACGT
AGGTGTGGCCCTCTGTGTCTGGCAGGAAAGAGTCTTCACAAGGGTTCTTGCTGTGCTCCA
GAACCTCAGCCTCACTGAGCAGCCTGTAACTTTCACTTCATCCCGCGTACCT

Sequence 4980

CCGGGCAGGTACTTTTTTTTTTTCTTTTTTTTTTTTGTGGGTGTCTTTGGGGTTNGGTTG
GTTCCGGGTATGGGGTTAGCANCAGGTGTGTGTGTGCTGGGTAGGATGGGCGGGGGTTGTG
TTGA

Sequence 4981

ACGTCGGATGACATGTTACCATGACACAAAACGACAATGACCACGGCACCACACCAAGAA
TCATNTACCTNTATTACAACCAGACATTNGCACTCAAATAAGGAGGTGCTGCCGTATACT
TATCCGTTGCTGGAGGCAGCATGAATGGGAACCANACACAGCTGGAAAGCAATCGGGTAA
CAGANCGCCAACCCTGTACCT

Sequence 4982

NAANAAATCTTTATTAAATGAATGAAAGGAGGAAGGAGNCCTTAACTGTACCTAACCTTC
CACTCTTAAGTATCAATTAANCTTNTNTGTTTCAGNCCAGCGTTNAGGGCNCCTACTGCNC
CCCCCGCCCCACACACTTTTNACAAAAGGTCNCCTGCTNTGTGTGACTTGCCCTTTCCC
CGGCCAGTNTGGGGCANAGGGAAATAACCCCCCTNTGCTNTNTGGTCTCAGTTNACTCGN
AACTNAAAGNNGGTTCGGTTCAAACCCC

Sequence 4983

CTCCACCGCGGTGGCGGCCGCTGGCCCAGGAGAGAACACGGGGAGGTTTGTGTGTGAA
AGGAAAGTAGTCCAGGCTGTCCCTGAAACTGAGTCTGTGGACACTGTGGAAAGCTTTGAA
CAATTGTGTTTTCCGTCACAAGGAGTCTTTTGTAATGCTTTGTACCCTCNGGCCCCGCTC
TANAAGTAGTGATCCCCCGGGGCTTGCAAGGAATTCATNATCAAGCTTTATCCGATA
CCCGTCCGNCCTNCGANGGGGGGGCCCCGGTACC

Sequence 4984

CCGGGCAGGTACCTTGGCTCCGGCTACTTCACTGCCATCCAGAACTTGAGGAAAAGTGAG
GAGGAAGTGGCTGCCCCGGCGTGCGCGGGTCGTGTGGTGTGCGGTGGGCGAGCAGGAGCTG
CGCAAGTGTAACCAGTGGAGTGGCTTGAGCGAAGGCAGCGTGACCTGCTCCTCGGCCTCC
ACCACAGAGGACTGCATCGCCCTGGTGCTGAAAGGAGAAGCTGATGCCATGACTTTGTCT
GACTACAATATTCAAAGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCT
AAGAAAAGGAAGAAGAAGTCTTACACCACTCCAAGAAGAATAAGCAC

Sequence 4985

GGCGAATNGGAGCTCCCCGCGGTGGCGGCCGTCCGGGCACGGTACAGTATATTTGGCCAA
TCTCAGCTTAGCTCACAGTAGCTACCCATCCCCACCCCTCAGCCCTGTAGCAGGCAGCT
GTGCACATGTTCTTAGAGCAGCTTACTTGACGCTGGCAGAAACCAGGGTTGACACAAAAG
ACCCCGTCTCTAAATATCGTGGATCTGTTCTTTCTGCTGATTGCTGCTTCTTCACTACA
GTGACACAAACACAGAGGCAAAGCAGCCATTGTTGCACATACCCATAACCATGATTGCAAG
CCCCTCTATNTTTGGCTGAAGTTATTTTCAGAGGGATTTTAAAGAGCTGACACCGTCACC

Table 1

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CTCCTCATCCACTTTATGTTTTTCTTTTCCCTTTTGGGAGCCAGGTCATTA

Sequence 4986

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGGCANGTGGACATGNACTTG
GAGTGGCGCCAAGNCGGATCGCCCGGGTCGTGCTGCAAGATGAGGACATCACCACCAAG
ATTGAGGGTGAAGTGAAGNGGCTCAACACACTGA

Sequence 4987

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGTC
AACCGGATCGGTGACTGTGGAGGGCGAGCTGAGCCCTGGCCGCCGCCACAATGGGCCGCG
AGTTTGGGAATCTGACGCGGATGCCGCATGTTGATCAGCTACAGCTTGTNACCNGTTTGA
GCAAGCGCCGCTATNNCGCACTGTCTTCACTAAAGGAATCCCCAATGTTCTTGCGCCCG
CATTCGGGAGTCTTTTCTTTCGCGTGGTGCCCGCANTTTTGTNGTGTTTTANCTTTATC
CTACACATGGGG

Sequence 4988

ACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
GGGAAGTGAGGCAGCGGAGGACGACCTTTTCCGGTTCCGGCCTGGCGAGAGTTTGTGCG
GCGACATGAACTGCTTACCCACAATCTGCTGAGCTCGCATGTGCGGGGGGTGGGGTCCC
GTGGCTTCCCCCTGCGCCCCCAGGCCACNCGAAGGGTCCCTTTTGGCCTTGTGNGAAN
TTNAAACCCCCAANNNTTCGTGGCCGCCGTATTGATACCTAAAAGTNGGAGTTGGTCNGCG
TNCCTGGA

Sequence 4989

CACTACTATACCGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGTACGCGGGCCGCTC
ATCGCCGTCATCGTGGTGGTGGTGGCCCTCGTCGCCGGCATGGCCGTCCTGGTGATC
ACCAACCGGAGAAAGTCGGGGAAGTACCT

Sequence 4990

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAGNAGTTAGCATTTA
ATGAAACNCCCTCCATGNGGCTTCAAGCCACCAGGACACAGGCCCCCCCA

Sequence 4991

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGGAGAGGCAGGAGGCGACGGTCCTGAC
ATCTCACACATTGCCCCGACTCGCTGGTGTATGGAGCCGACTGGTCCTGGCTGCTCTTCCG
TTCTCTGCAGCGGGCCCCCTCGTGGTCTTTTCTAGCAACCTAGGAACCAAGACGGCAGA
CCTGAAAGGTTGCAAGCGAGTTGCCAACACCTGTTCATGAATGCAGAGAGGATAACGATG
GGGAGGGCCATGCCAGACCCAGAGTGGAATGAAGCCACTCACAGAGGGCATGAGGAAGA
ATGGCACCTGGCTGCAGGCTACAGCAGCCACCACACGTGACTGTGGCGTGAACCCAGAAG
AAGCAGACTCAAGCCTTCAGCCTCCTGGCCACCTGCTCCTTCTATGACCATGCGCTCCAC
CTCTGGGAGTGGGAGGGGAAGTGAAGTGAATCATGAAGCCCCTT

Sequence 4992

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATCG
GATTGTGATGTGTGCCAAAAGGTGGATTTTATACGACAACTGGCGATGACCAGCTCAGTG
GCTGGACTGAAAGAAGCTCCAAAGCACTTCCCAAAGCCAACTTGCTCCAAAAAATGGTC
ATGGTCATTGTTTGGTGGTTTGGTNGNCAGTNTNGATCCCACTTACAGCTTTCTTGAATC
CAGGGTGGAAACCATTACATCTTGATAAGTATGCTCAGCAAATCAATGAGATGCACCAA
AACTGCAATGCCTGCAGCCGGCATTGGCCACCAGAAAGGGCCCAATTCTTTTACGACAA
CACTGGGCCGACGTTGCACAACCAACGCTTCNAAAATTGAATAATTGGGCTATGAAGT
TTTGCCTCATCTGCCATATTCACCTGACCTCTTGCCAACAACTACCACTTCTTTAGGCA
TCTCAGCAACGTTTTTGC

Sequence 4993

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGANACGGANCAGG
TNANAACTCCCGTGCTGATCATTTATGTGGCTNGCGCCTGTNATCCCAGNNCTTTGGGAG
GCCTAGGTGGGCGGATCACGAGGTCANGAGATCGAGACCTTCCTGGCTAACAAGGTGAAA
TCCTGTNTCTACTNAAAATTACCAAAAAAANTTTGNCTTGNAAAATGGGTNGNCGGGCCG
CCTGTAANTTTNCACGCTTACTCTNGGGAGGCTTGATGNCAACGAAGAATTGGNNTGAA
CCCAGGAGGCNTANNTTGCANTGGGCNGANATCCTGTNACTGTAATCCAGCCTGNGTNAC
ACANCAAGACTCCGTTTTTAAAA

Sequence 4994

GNGGCGGCCGAGGTACGCGGGATGCCAACTCTAATAAAATGGAGTCGGGGGGCCACATA
GAAGCCCTCACACACACATGCCCGTAACAGGATTTATCACAAGACACGCCTGCATGTAGA

Table 1

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CCAGACACAGGGCGTATGGAAAGCACGTNCTCAAGACTGTAGTATTNCAAATGAANTNGA
ANATTNTTTANCTTACCACGGGCGCTCTAGAACTAGT

Sequence 4995

CCGCGGTGGCGGCCCGCCCGGNCAGGTACGCGGGGAGAAACCCTCATAAAGTAGATGCAGA
GGGCAGTAAGATATAACTCAACTTTGAAAATGTCAGCCGTTATAGTTGAAGAAATCTGAC
CCAAGAGACCTCGCTCCGCTGCAAGATGGAAGGAAGCTTAAGTAAGACATAAATTTTGN
ATGAACCTTTNGNCACCAACAATCCGCCGCCACCTGTGACTTGCANTCATCATCCATTAC
CACAAAATTAGTTGCAGGATGGCTACTCGNATCCCTCCACACATGATCATCANGTATTTG
CCTCCTGNGNCCCAACCGGCTGAGTCAAATTTCCACTCTGNCACCCAAGGCTGGAGTGC
AGTGATGTAATCTNNGGCTCACTGNAACCTTCACTTGNCAGGTTCCAAGTGGATTCTTC
CTGGCCTCAGCCCTNCANNAGTTAGCTGGGGATTACAANGGGTTAACGNACTTCACTTGA
TTAAAAAA

Sequence 4996

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGCCGGGCATGGTACCGCTTGGCGG
TGCGGCCTGGTGTGCGCTTGCANGTTCTTTCTGTGTTTGTCTCTGCCCTGCCAAGGCCG
TAGAGCTGGTGCCTGCGGGTAGCGGGGCTCTCCGAGGAGCCGCACGCCGGCGGCACCATG
GTCCACCTCACTACTCTCCTTNTGCAAANGGCTACCCGTGGGGGGCCACTTTAAACCAAT
CCCGCCTTGCCCTGGGGTGGGCTTGCACCAATCGGCCCGCTCTAGAACTAGTGNGATCCC
CCGGGCTGCAAGGA

Sequence 4997

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTCTGATACGCTCAT
CACTTTCTGTGTCAGAACTTTGAAAAGCAAAGACAGGACATCGACTTCCTTCGAGATTGC
CTACTGATTCTTCTAGAAGACAGAGATCTACTGGGGTAGTCCGGGACTGACTGCAAAGAG
CCTCAGGTAAAGCAGAGGCCATTGGCNGCCCTAAAGNTTGGCCAGTCAAAGAGGCTTGCG
GAAAGGTTGAAAATGAAAAGGAGAGTAAGCAGAGGGATGATAAGACCCAAAACCTCTGAT
GGGATCAGGGTCTGTAGGAAGAGAGAAATGAAGCTGGGGAGAATCCAGCTCAGGGGAAGG
TGCCAGCANNAAGGCCTGGTTAGTAAAGCCTCCAGGGATGTTTGCCAGTGGGAGCAGTAC
TGTGCNATAGCTTAATGAGCTCCCTGGAAAAACAAATG

Sequence 4998

TANGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGCGCCGGGCAGGACGCGGGGGCTGCTTA
GCNNGGGANAGATGGCAGGNGACGGGCTGGTTGGAGAGTCTGCGGACAGCCCAGAAGACT
GCGCTGCTGCAGGACNGGAGAAGGAAGGTTCACT

Sequence 4999

CGNGGTGGCGGCCGANGTACCTGGCTTTTCTAGACTCTACATAGGGAATTCCACCATAATT
AAGATGTATAAACTTGACCTACAGCCTAAAGCCCAATATGCTTCCCTCAAGAACATCAAC
AGTGTTCAAGCTTAGCTTTGTTACAGAAAATGAGGTAGGGTGCGGTGGCTCACATCTGTN
ATTTTNAANAGGTTTGGGGAGGCCCAAGGCAGGCGCATCAGCTGAGGTCAAGAGTTTGAG
ACCAGCCTGGTCAAAATGATGAAACCCCATCTATACTAAAAATACAAAAATTAGCTGGGC
ATGGTGGCACACGCCCCGTTATCCCANCTACTCAGGAGGCTGAGGCACTAGAAATCACCCCT
GAACCCAGGGAGGGCGGGAGGCTTGCCAGTGAGCTTGAGATCACGCCCACTTGCAATTCCA
GGGGGGGAAAA

Sequence 5000

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTT
TTTTTTTCTTCTTGTCTCAAAAAGGTCAAAGGGAGCCCGACGAGGAATAAATAGCAATG
CCCTGAATTCCAACCTGACCTTCTACAGAAAAGTGCTTGACTGCCAAGTGGTCTTCCCAGT
CATTAGTGAGGCTCTTGTAATAATTCNCCANNCTCCCTCTTNGGGTNAATGGTCATCAGG
GGTTTCCTGGGNCCAAAATAAGGCTTTGGGGNCTTGTTATAGTTCTTCTGATCAATGTA
TTTCTCTTTGATCTTCTTAGTTTNTCTTCTTATCCTTACCGCTGTCATCCTCCTCATC
TGAACCCACATCTTGNATCNTGGGCTTTTCTTCATNATCCTNTTATACTTCTCTTCTTT
CTCACCTTTNTNTTCCNCTGCCTTCATCATCACTAATTTTCC

Sequence 5001

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGTAAAAGAGAGA
AACACACAGGTTAAATATCTTCTTGTGGGGTTAAGGGGTAGAACCTATCTTGCCTTCACT
CTCAAGATAACGACTCAAATTAAGCTTTTTGAGCACCCTCTTGTGGGGACACACATACG
CTGATCTAGGAATGAAATCTTCGTGGGCCTCAANTTCTAGATCTACTATGCCAGTTTCTC
TCTGGGCTTTAGCCTTTGAGAACCTGTATAAGAATACGTAAGTAATCCAGAGCTGTGAAG
AGTTTAAAGGCCAACTTCTCCAGTGAACCTCAACCTCTGGGTCACTTGCAACCAGGAATT

Table 1

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GGGATACCTCATAATGATGCAGGGAAAGACCCCGAGGTTCATGATGGAGTTTCAAAGGCC
CACGTTTCATTTTAGGGA

Sequence 5002

CCGCGGTGGCGGCCGAGGTACGCGGGAAGCATTCTCAGGTCTGGATTAGAGACAGGAATC
TGTCTCCACTTCCTTACATGGCTAGACACAGAGCCCGGGAGGGCAAAGGAAAATTGGAGG
CCCCTTCTTCCCATGAGCCATTTTCTCTGCATCCCCTGCCATAAGCCTTCACTGGCCTC
TGATCACCCCTCATNGGTTGACTGCAGCTGCTCCTTTCAAGTGCCCTCATGCCCTCCACT
GTGCTCAGCGGCACGGAAAGAGTGAATACTCAGTTCTTCTGAGGGAAGTGAAGCACAGA
GAAGTGGAGGGCATAGAACTGCCAAGTGGCAGGGCCATGATAGGGAAGTAGGCAGCCTGC
CTTGGCAACCTGTGTTTTTAAATGTTGCTTATGTTTCATCTGTGGACCTCTTACTACCC
TCTCCTG

Sequence 5003

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGAAGTATGCCCCCAACTTGC
TGGCGTGCTGCTTCTTTGGGAACACCCCTGGGTGGCGTTTCATGTAATGGGACACGATGC
CCTTCTTGCTGAACGACTGGAAAGAGCACAAGGAGCACTTTTCTTCTCCACTGCCCGCC
TGAGTTCCTCGCTCAGCTGAAGGGGAAGTCNTCCTTGGGCGGGGAATGGGATGATCACT
TTTGTGTTGGGGCNTTGTGCTTGATGGTCCTGGAGGCTGCCAAGCAGTGAGTGTAATACG
CATCAATTGTCGTGGCGCTTCTGGTAGTGGGCTGCCAGACCTTTGCGGATGGGGTTGGTG
TAGGCACACAGGGCACACTTTGAAGAAGGTTTGTTCCTTGCCCTTCTGGCTTGGGCTCGGA
CATTTATTGTGCCTTGAT

Sequence 5004

ACTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACATCTGGC
AGGGGACTGTTCAATTCAACTTTCGAAAGAGTTGCTTAGCCTGACTCTGATACTGTTGAAG
GTCCCGGCCAGACTGTTCTGCTCCTGCATCGAGGCGGCCAGCGGGAGCCCGTCCGCCAC
TCGGGCGATCATTGTTAGCAACACCATTNTTNACAACTACAGGGGATCCAACACTGGCC
CGGAAGGCCCTTGGCGCCGCTCCTCACTTCTCCGCCGCGACAACAGTTATACCCTATGTC
CCAGTTACCGGAGATCCAGCTGCTTGCGTCCCCGCGTACCTCGGCCGCTCTAGAAGTGN
TGGGATCCCCCGGGCTGCAG

Sequence 5005

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTGGACTCCTCCATGCTGCAGAACCCACAGTGCTGTCCATAGAGGAGAACAAGCAAC
GAAGATCATGGCTAAAGATCTTAGAGATCCTTAAATGCCGATTCTTAATCTCTTGCTGA
AACTACTGACTTTTANAAATTTTNCNCACTTTNNCCCACTTCTTGTAATCCCAAGAAAT
ATTAAGGAACCAAGGTTNCTTAAACNCCCGAAGGTTTACTTTTTTCAACTGGGTGGTT
TTGCANTNGTNGTNGGGGGGGGACCAAAAAGTNTTATTGTGTCATNTGGNAGNGCCATG
GGAAANACTGTNGGGGATCTGCA

Sequence 5006

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTCTTTGGGCGCAGCTG
TTTAATTNAATCCCNCCNCCCTGTCCAGCAGGAAACCCCTTATANAAAACCCAAATCCN
NATNTGGGNGTTTNTNCTTNGCCNGGGGANNNTTNAAAAANAGGNTGATTNGAAANT
TNTCGGGGCGGGGNGCAGGGNACCTGCCCGGGNGGCCGAGGTNCCTCANGGGNGGNCTNG
TTGNCCCGGAAGTGCATGGGAGGATAANCCCCGAAAAANCCNTCCGGGNGGGGTTCATAA
ANGGNCNCCCNANANAGGNTGGAAGAANNCCNNCAGGTNTGCCAAAAATTCNTGACC
TGCCCCAAAAACCAAATTA

Sequence 5007

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTTTCATTCTTGATAAACCAGTTTATTTCTTCTATCATTAGTCTGTAAATG
CCANACCTCATTTNTGTGGTCTGTTGAATGAATCCTANACAGTTCTGTGAGAAAGCAGCA
ATTACNCAGTTATATACATGGNCAAGTTAAATTTAAACCATNAAATGATAATTTAAGTT
TTAAAAAATACTGGGCCAGGCNCGGGGCTCACACCTGTAATACCANCACTTTGG
GAGGCCGAGGCGGNTGGATCACNAGGTNTGAGGCGGGCAGATCACCNANATCAGGAGATC
GAGACCATCCTGGCTAANATGGTGAAACCCCATNTTTACTAANGATACAAAAA

Sequence 5008

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCCTCGTTTCGAA
AGGCCGATGCGATATAAAACCACTTGCCAGTGATCCGGTCCAGGGTGGCGTTGGTGATGG
GCACCGGAACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTCTAGTCATCCTCGNCGGTCTTN

Table 1

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TGCTTCTTGGTATCGACATCGTCATNCTTAANAATTTTTNAGCTTGCCCGCTTTGCCCGT
AGGCTTGACTTCAGCTTCCTCATCTTNATCTCCATCCTCTTCCTCACCATNACCTTTCTT
CTTCTNCTCCTCTTCCTCCCCACCTTCTTCTCTTCTTCGNCTACCTNATTGTNAGCCT
CCTGCTCCCCATTTTCCTCATTAAGCATTCCTGTTAGCAGGGGGCGTCTCTTCCATTTTC
TGCCTTTTCCACAACTTCCTTTCTTTCTCCTTTTA

Sequence 5009

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTTATCAATATAAAATAATC
TTCCTGTTGAATGCTTCATGACTTGAATTCTACTTTGATAAAAACATTGCCATACTGCTT
TTTATCTTGATGAATTCATCTGGCATTGCTTTGCCTTATCATCTCATCTGGAGTTTTTAA
ATGCCATTTGTTTCAANNNGTCTTTTACCACCTTANTAAANTAGACTTTTGCCATTTAAC
AAGGGTAGCTCAAATTCTTTTACTAATTGTTACATCGAAACATTCTTTCATCATATTTCC
TGTGTTTATTTGGTTTTTTTCAACTTCCTCTGNTTACTATCTACAGTGATTTNGGAAAGGG
AGATTTCTTTTAAACAAACAAGCCTTATTGGGAATGGCTTTTATGATTTTAAAGTAA

Sequence 5010

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGAAGGGGGCGC
AGGTGGCCGCCATCTTGATTGCGAACTGGGTGCTACGCTTCACGCCAGGGGGCGGAGTG
GCGGCCCTTCTGTTACCCGCCACACACGTCGCCGCTGGGGACTGGGAAATCAGGGCATCG
GANAGTGCCNCATTNATGGGATGCCATTGGCTTAGTCCANGGAAAGATAACTATAGAAT
GAAAAGTTATAAAGAATAAAGCCCTAAATCCTCAAGAGATGCCGTNTNACGAAGAGAAGA
ANAAGGAATACAGCTTAGAAAAAAACAAAANANAAAAAAAANGTCCCTGCCCGGGCCGG
CCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGAAATTCGATATCAAGCTTATTCG
ATACCCGTCNACCTNGAGGGGGGGGGCCCCCG

Sequence 5011

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACTATGC
CTGGCTACTTTTTGTGTTTTTAGTGGAGACGGGGTTTCACCATGTTGGCCCGGCTGGTCT
CGAACTCCTGACTTTCAGTGATCCACCTGCATTGGCCTCCAGAGTGCTGGGATTACAGG
CATGAGTCACCTTGCCAGGCCTACTTTTGGTTTTTTTATAAGAATGAAGCCAAAGTGTGG
TGGCTAAGGCTACACAGAGACTTGAGAGTCTGAGGTGGGAGGATCACTTGGTGCCAGGGG
TTTGAGAGCAGCCTGGGCAACATAAGCAACACCTCATCTGTAGAAAAAAGTTTACAAAA
CCTTGGTTTTACAAGGTGTGAGCCTCCGTGTCCAGCTCCCAAGTTTTCTAGTCTCTACCTG
CACTGCTTATATTGCTA

Sequence 5012

CGCCCGGGCANGTACGCGGGGCTGCGCGGATCGGCGTCCGCATNGGGCGGCTGCTGAGGG
GTGACTGTTCTTTCANCTCCCAGCACTGGAGCGCTCGGCCCTGCCGCACTGGATGCCAG
CAGTTACTAAAAGTGAGCCTGGCATTTCAGCTGCCTTGAGGTGCAGTGTGGGGATCCAG
AGCCATGTCGGACCTGCTACTACTGGGCCTGATTGGGGGCTGACTCTCTTACTGCTGCT
GACGCTGCTGGCCTTTGCCGGGTACCTCGGCCGCTCTAGAACTA

Sequence 5013

TAGGGCGAATTGGNNCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTATNTNTN
TTTTTTNTTTTGAATCTTNCAGGTTCTGGCTGGGGCATGAGCTTTCTTGTTTTTTTCCAA
AACTTGTAATGGGAGTCACTGCTTGCAGAGCGGTCTGATTCAACTTGATCNCNACTGCCT
CAGGGTTGTCGGTCANGTAAATCTGTCTGGAGATGTTGTTTATTGCACATATCCACTCTT
CATTTTCCTTTCTGCTCTCANCTGGAGGATTATTCCCGATTTTCCATTGGGCGTGGTGA
TCTGGAAGCATGTAGCGCCGGTCTTCGCAATCCACGGCCATCACTGANCAAGTTGTCCAGG
TCCCGGATCAAAC

Sequence 5014

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATGAACCT
GTGTCTTCAGGCTCCCTTTGTCTCTGAGGTTTGGGCTGTGGAGGTGAGCAGAAGGTGCCT
GTCTTTACTAAACAGCCAGGATGGAGGAATCCTGACAAGAGCTGTGGTGTCTGAGCCGG
ACCTTTTCTTCTCTGAAAATTGTTGAGGAGGCCCTTGCGAGCAGGAGTGGTAAAGAAA
ATGATGAAATTCCTGAAGACAGGAGGTGAGACTGCATCACGTTATGCTATAAAGATACTA
GCTATCTGCACGAATAGTTATCATGAAGCTCGGGAAGAAGTAATAAGACTGGATAAAAAG
TTGAGCGTTATGATGAAGCTGCTCAGCTCGGAGGATGAGGTTCTGGTGGGCAACGCTGCC
CTCTGCCCTTGGTAACTGCATGGAGGTGCCCAACGTTGCGTCTTCCCTGCTAAAGACGGAC
CTTTTGTAGGTCTTGTTAAAGCTTGCAGGCAGTGACACACAGAAGACGGCCGCTCTAAAA
CTAGTGG

Sequence 5015

Table 1

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CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNTTTTGAGGTGG
AGTTTCACTCTTGTCGCCCAGGCTGGAGTGCAGTAGTATGATCTTGGCTCACTGCAACTT
CTACCTCCAGGGTTCAAGTGATTCTCCTGTCTCAGCCTCCTGAGTAGCTGAGACTACAGG
CACATACCACCACACCCAGCTAATTTTTTGTATTTTAAATAGAGACGGGGTTTCACTATGT
TGGCCAGGCTGGTCTCAAATGCCTGACCTTGAGTGATCCACCCGCCTCGGCCTCCCAAAG
AGCTGGGATTACAGGTGTGAGCCACCAGGCCCGGCCTCCTAGATTAATTCTTGACATTTT
TTGGATCAAGTAAGAACCCTGGAGCCTTTCCTGGAAAAAAGAACACATACTCANTCTNA
CACACAATTTCTGGGGGCTCACAGACCCTNTTGAAGCCTATCCATAAACCCCTGGTGAA
GTCCCCCTGCCGATAGCCTGAGGGAAGACATGTGAGTGATATATGTGCACTAACAGGG
GCGAAACAGACCTGGATGCTTNTGCAATCCCAGAAAAGCATGANGNACCATTTTCCAAA
NCTTTGGTTTGTNGGCCTGGGCTNCTCCCCTAATTTTATTTTTTTTGAAAACTTAACNT
TTTTTTT

Sequence 5016

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGGAAATTGGGAAGGGATGAAGGAGGCT
GTGCCTCCGGGTGTCACGAAGAGTCCGAGTCATTTCTCAGAAGGTTTTGATAGGTGGGCC
TTAGAGGAGACGCCGCCGAGCACCGCAAGAACTGGAAAACACACCCCTCTCTGTCTGCCT
GGGAGAGCCACGAAATTGGCACTTCTCTGAAGTGAAGCTGAGGAGAAGGCTGTAAATCT
GCCAAAACAGCCTTGAAGTATTCTTTTGTCTATGAGGAAGTGACGGCTGCTGGAGGGAGGT
GAACACCACAAGGGAGAGATGGCATCTGGCCTGGGCCCCGCCTAGCAGCAGCCTCCACCT
CCTAANGCCAGGGCCCCCTGTGGGGATGCGCCCACTAGACCACCCATGGAC

Sequence 5017

GCGGTGGCGGCCGCCCGGGCAGGTACNCGGGATCTTTGGTGGCTGTGGTCGGGTGTTTNC
TGGTGCCCCCAGCTGAAGCCAACAAGAGTTCTGAAGATATCCGGTGCAAATGCATCNGTC
CACCTTATAGAAACATCAATGGGCACATTTACAACCAGAATGTATCCCAGAANGACTGNA
AACTGTNTTGCACCNTGGTNGGAAGCCATNCCAAGTGCCCTTGGNCATAGACCTTGAAG
GCCT

Sequence 5018

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGCT
GGAAATACAGAAAGCACCCACCTTCTGCGTTGATCTCACTGGGAAGTGCAGATCAGAGCT
GTTCTTATTCGGCCATCTTGCCAGCCTCCTGGCTGAAGGTTTTTCTACATTTCTTACATT
TATATGTTTTTTATCCAGNTGGGACATCTCTGATTAACAGTAGGGGAATTGCTGATAACT
AAAGGCTTGGCCACATGCACTACATTCTTAAGGTTCTTCTNCAGGTATGACTTCTTTGAT
GACAAATTAAGGATAACTTTCTTCTGAACGCCTTTCCACATTTCAAACACTTGATAGG
GGCCTTTGGGCCAAGTGGTGAAGTCTTTTGGATGCTTGAAGCACAGGGATGGAGCTATC
ACTTAAAAGCCTTTTCCACATTTT

Sequence 5019

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTGGATGCACCCAACCCACTCTAAAGAATGTCAGTGACTTTA
TACAAAAGAGGAAGCATNTANATTGGCATTGTGAACATAATGCATAGGGGCGCGGCGGGA
GCTCTAGAGCCTAATTGGTTAAAACCGTGGCCTCTGGAAATATGNACTACCTTGNNACTT
TGANTGCCTCCACTCTGCNCATTTATNTAACTGCATGACCCTTTTGAAAAANAACCTTTN
TATCCTTCGGGNCCCTCATTGTTGTAGAAANGGAGGATNATAACTACTTTATCTTCACCG
GGGTGTTCTAAGTNTTAAAATTGGGATAATACAAGTNAAGTACCTTCGGCCGCTTCTTA
NAACTAGTTGGGATCCCCCGGGC

Sequence 5020

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCTCCTACTTG
GATAACTGTGGTAATTCTAGAGCTAATACATGCCGACGGGCGCTGACCCCTTCGCGGGG
GGGATGCGTGCAATTTATCAGATCAAACCAACCCGGTCAGCCCCCTCTCCGGCCC

Sequence 5021

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTGGCTGGGCGTGGTGGCGGGTGCTGTAATCCCAGCTACTCAGGAGG
CTGAGGCAGGANAATGGCGTGAACCCAGGAAGCAGAGCTTGCAGTGAGCTGANATCATGC
CACCGCACTCCAGCCTGGGCAATACAAGCGAGACTGCCCATNCACAGATGAAGGGATAAA
GTAAGTGTGGNGGACATACACAAAGAGAATAGTCTTCAGCCAGAAAATCAGAATGAAATT
TCATCCTTTGGAGCCATACTGTTGAACCTGGAGGACAGCATGGTAAATGACCTGTTCAA
CACAGCTTGCAGGGATTGAGGAAACTGCTGTACCTCGGCCCGCNTCTTAAACTAGTTGG
ATCCCCCGGGGCTTGNAGGGAATTTCA

Table 1

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Sequence 5022

ACGACTACTATAGGGCGAATTGGGAGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTA
CCCGCATTC AAGGGGCAATTT CATCCATGTCTATGCCAAGGACTACTTCCCTTTTCCCTC
CCAAATAATCCCTCCCAACACAAAGAAACAAACAAAAAGAGCTAGGCAATGGAATGAAA
TGACACCCAGTAGTGCTGTAGGAATTATGAGAATGAATCCAGTCAGTCTAATCCTCGAAC
ACTTCCAAGAACAAGGGGGGAAGAGTTCTGTGGGGCATTCCACCTTCATGTGCAGGAAG
CGGCTGGCATGGCAGGCTCCTATCATCCGCAGATCTGTCACCTTCATCAGGAGTTTGGC
CAAAAGTGTGTCACGTGGTGTTTTCGGTAATTGATATAGTGTTCAAAGGCCANCAGGAAA
CTATCTTGGTACCT

Sequence 5023

AGGTACGCGGGTTTTCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGG
TCGAGCTGTGCAGTTTTAGCGGGTACGCGGGTGAAGATCCTCACCGAGCGCGGCTACAGC
TTCACCACCA

Sequence 5024

CGCCACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGCCA
GTCCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCATCGCGGTGCAAATAGAAGCC
CAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACGCGGGTATATTCAGGTGAATGAGCCC
TGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTGGCTTG
GCAGTGAATATAGCTGCCTTGCTCTCTGTCATGCTTCAGCCTTACATGCCACGGTTAGT
GCCACAATCCAGGCCAGCTGCAGCTCCCACCTCCAGCCTGCAGTATCCTGCTGACAAAC
TTNCTGTGTACCT

Sequence 5025

AATTGGATCTCCCCGCGGTGGCGGCCGAGGTACGCGGNGAGTCANTGTCAGCCCGAANGC
TGNAGGAAANATTNCAACAGATCCAGGGAGCATTACCTGCCCTGTNTCCNAACAGAGCC
ACCAAGGAGGAGCAGGGGAGCGACN

Sequence 5026

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANANAANATGGCCTTTATTGCAGCACNAA
CTGAGGGGGACTGCATGTCCACAGCTCTCCAGGANCTGCCAAAGGCAACGGGCCCNCCCT
NCCCCTGCAANANGCCCTNCANGGGCNTAAACCATGGCTTCCCTTAANGAANGGNTAAC
CCCGTGCTTGTAACAAGGGCCCAACAACACATAGAGGAGAGGCAGCATCATCATGTGC
AGCTTTGCTACAANAAANATAGTTNTTAATTTCCCCGCGNACCTGGGCGCTNTAAACT
AGTGGGATCCCCNNGCTGCANGGAATTCGATNTCAANCCTTATCGATACCCGNCAACCT
TGAGGGGG

Sequence 5027

GGGTATAATACTAAGTTGAGATGATATCATTTACGGGGGAAGGCGCTTTGTGAAGTAGGC
CTTATTTCTCTTGTCTTTTCGTACTTGTCTAGCTCCTCTCGGTTCTTCCGANCCANCTNC
GTNNATNATTNNGGCCCCGATGTCTGCCATGATCTTGGCGAGGTCCTGAGATTTGGGGGC
ATTTACCTNCACGGTCAACCCAGAGCTGGCAATCTGGGCTTGNAGGCCTTTTACTTCTN
TTCGTGGTTCTTCTTCATGAAGAGCAGCTCCTCCTTGAGAGCCTNGATCTCTGTCTCCAG
CTGCAGTCGNGTGATATTGGTGTCC

Sequence 5028

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTCGNNCCCNTGCTCCTNCTT
GGTGGCTCTCTCAGAGGACTCCANAGTTGTATCCCAGGCCGTCTTNCCCGCNTACCTGC
CCG

Sequence 5029

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATATTTTAATT
CAAAACCTAAGATATGGGTAAAAGAAACAATCCAAATTTTGACTTGGCAATCCTGACCAC
ATGATGCCAGTCGAAAAAACTGAAGACCTTGTCTCCATCAGAAACTGGCTGTGAAGAAA
AATCGCAGCAGGTAATTCCAAGATCATGTGCTTTTTTCACTATGCAGACACCTCATTTTA
TCATCCCACACTGTTAAATCACCACATGAGGAGCCAGTGACAAAGAAGCTTCCATTAGGA
GAAAATGCACATGCCGCCAAGGAGCCATCTTTAACACTACCACATCTATATAATTTGTAT
GACTGTGCATTCCACAAAACCACAGTTCCATCAGCTGCCCTGATGCCAAAACACGTTGG
GAGTCTGGGGAAAAAACTGGCAAACCC

Sequence 5030

GCGNCCGGGCAGGTACTTTACGTTACTTCTTGCACTTTTCCCCTGGTGGAGAAAGCCTTA
ACTTATCTTGAAAAGGTGCAAATAAGCAATAGCATATACCCATAGCCTCTGGCACGGGGC

Table 1

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AGTTCGGTAAAGTTTATAAGCAAGTTTTCACAAGGCACGGCTCCTAATTNTTGAAATTNT
TGGGGCTGAAGTGGGCCCCGTGTCGTGGGTATTCTCAGCACANGTTAATCATTTGTTTACA
AACATNTTGAGTGACAGCAGAGAGCCACGGCACATAGAAATGGCACTTTCGTGACCCAGC
GCAGTGGCTCATGCCTGTAATCCCAGTACCTCGGCCGCTCTAGAACTAGTTGGATCCCC
GGGCTGCAG

Sequence 5031

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTTGGACTGAGTCTNTNTCGCTCTGTCACCCAGGCTGNGGTGCGGTGGCGCTCTN
TCGGCTCACTGAAACCTTTGCTTCCCCGGGTTCAGNGATTCTTCTTTGGTAGCTGGGATG
ACAGGCGCACACCATAACNGNCCCTNTTNAAANCTTATTTGGANNCCCCCGGGCCTNN
AGGAAATTTCCCATATACAAAGGCTTATCCGATTACCCGNNNAACCCCTCNAANGGGGN
GGCCCCGNGTCACCCANNCTTTTGTTC

Sequence 5032

CCGCGGTGGCGGCCCGCCGGGCAGGTACTATGCTTTACTAATAGAAATACCTCTTTGCTG
GGGGAGGGGAGTGCTTCTGAATAGAAATTACCCACTCTGAGTTACAGCTTTAGTGGCATA
TTAATGGGGATTTTAAATTTACAGTAAAAACAAAAACAAAAACAAACCTATTCCA
ATTATGACAAAATCTATTTTTTTTTTAAAACCTATCTTAGATAGGACCATCTCCCTTACG
ATTAAGNATGGCAGAACAGAATTGTCANNGAGGAGAGGTTTGGTCTGAAGAGGGTTATCT
GTCCAGGAGAACGCTTTATCCCCAAAGCAATTGCGCTTCAGTTTNCCTGTGCGCAGCATAG
CACCTTGTTGGGGGGAGAAAAAGTTNAGCACCTANAAAGTCCATGAACCAAATTCCAGCA
GCAAAAAAACTTTCC

Sequence 5033

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGTCAGTGTACAGC
CCGAAGGCTGAAGGAAAAAGAGCAACAGATCCAGGGAGCATTCACCTGCCCTGTCTCCAA
ACAGAGCCACCAAGGAGGAGCAGGGGAGCGA

Sequence 5034

AGGTCCGCCAAGGTACAAAGCTACTTTAAGTCTGCTCTTAAGATCAGTTTTTGCTCATAT
TCAAATAACATGGAATGTTGGCACAAACTGAAGCTGCTGTAGAAAGATCACAGATGTTT
TGTGGGTACTCAAACCTTCCCCCGCGTACCGATTGTTTCATTGGACATGATGTTATGGA
AACGTGCCAGCTGTCCAAACATCTGTAGGCCAGCCTCCTTTTNTCGGCGGGCTTCTGGAG
TCAGACTATCCCATTACCTCGATCCTTCTCAATTTGCTGAATCTTTATCTTGCTCAAAT
ACTGTATGGCTTCATCCAAAAGGAAGATGGCATCATTCATTAGCAGGTTAANAAAGCGGA
GGAAAAGTGGGGGGATTTCATGGCTTCNTAAATCCTTAGAGGCATAGTCAGCCAAATTCCT
TAATGC

Sequence 5035

CCGGGCATGTACGCGGGAGGTGCCAGTGTCCACACTGACTAGTGGTGACTGCGTTGGAC
AGTGCAGATACAGAACATTTCTGTTCATCACAGAAAGTTCCTTTGGACAGAGCCATGTTAA
GTGATGTTATCACAAAGATGGACAGAAACCATTCCCATNGATNGGANTTAANTTTTTTCAG
AACCCCAATTTTTGTGGNAGAAATAAATTNANTGNATTGCCTTTTACANTANTGGTCTTC
NATGAAATTCCTTTAAATTATT

Sequence 5036

AGGTACATGGTGGATGATTTTAAATCACCCCTAGTGTGCTGAGACCTTGAGAATAAAGTGT
GTGATTGGTTTCATACTTGAAGACGGATATAAAGGAAGAATATTTCCCTTTATGTGTTTCT
CCAGAATGGTGCCTGTTTCTCTGTGTCTCAATGCCTGGGACTGGAGGTTGATAGGTTN
NAAGTGTNGTTCTTACCCGCTCCTTTTTTTCCTTTAATCTTATTTTTTGGATGAACACATA
TATAGGGAGAACATCTATCCTATGAATAAGAACCTGGTCATGCTTTACTCCTGTATTTGA
TATTTTGTTCATTTCCAATTTGATTCTCTACTTTTCCCTTTTTTTTGGTATTATNGTGACT
AATTAGTTNGGCCATATTGGTTAAAAAGTCTCTTCAAATTTAAGGCCAGAAATTTCTTA
AAACATTGCCTGCAAGCNAAGGAGGA

Sequence 5037

CCGCGGTGGCGGCNCGAGGTACACACATCACAGCCCAGACACGCGGTGTTGATTGAGACA
CTCTGTGCCCTGGGGGCTCAGTGTGCTGCTGCTTGTAACATCTACTCAACTCAGAAT
GAAGTAGCTGCAGCACTGGCTGAGGCTGGAGTTGCAGTGTTCGCTTTGGAAGGGGCGAGT
CANAAGATGACTNCTGGGTGGTTGTAATTGGACCGCTGTGTGGAACATTGGATGGGTNGG
CAAGGCCAACATGATCCTGGATGATGGGGGAGACTTAACCCACTTGGGGTTTATAAAGAA
GTATCCAAAACNTGTTTAAAGAAAGATC

Sequence 5038

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGCTTCCTGTAAAGCC
TGCAGAGCCATGAGCCAATTAAACCTCTTTTCTTTACAGATTACCCAGTCTTGTGGATCA
TGAGGTCAGGAGATCGAGACCATCCTGGCTCATACGGTGAAACCCCATCTCTACTAAAAA
TATAAAAAATTAGCCAGGCATGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATGGCATGAACCCAGGAGGTGGAGGTTGCATAGAGCCGAGATCGCGCCAC
TGC ACTCCAGCCTGGGCGACAGAGCAAGGCCCCGCTCTCAAAAAAACC'CAAAAAACCAA
AAAACCAAATTACCCAGTCTCAGGTATTTCTTTATAGCAATCCAAGAACGGCCTAATACA
ATGGGCTCCCAACACATAAAACATACAGCAGCCACAAAATAAATTAGAAACAATGTTAAGT
AATGCCCACTAAATTTTGAATAGCAAAATATAGCATAGAAGTATAAAACAAATGTATTTCT
TTATCCCTCAAAAAAGGGGCATCTTTTTTGGTTTTTTGNTANTGCTGGTTGGA

Table 1

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Sequence 5044

GGAGCTCCCCCGCGGTGGCGGCCCGAGGTACTGTAATGAGTTTAGGAGAGGCTGGGCACG
GTGGCTCATGACCGTAATCCCAGCACTTTGGGAGGCTGAAGCAGGAGGATCATTTGAGTC
CAGGAGTTCAAGACTAGCCTGNGCAACATAGTGAGACTTACGTCTCTATAAAAAGTAAAA
TGAATTAAGCTGGGTATGGTGATGCACACCTGTGGTCCCCTACTCAGGAGGCTGACGTG
GGAAGATTGCTTGAGCCTGNGACATCTAGGCTGCATTGAGCTGNGATTGCACTACTGCAC
TCCAGCCTGGGCAACACAGCATGACCCTGTCCCATAACANAAAATCNTAAANAANANACA
GTNCCCACGTAAAGACNTTAGGTCAAGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTAC
ATTTTNTACCCAGAAAGACTACNATAGCCCTTATGAACTTAAGG

Sequence 5045

TACGACTCACTATAGGGGCGAATTGGAGCTCCCCCGCGGTGGCGGCCCGCCGGGCAGGTA
CTGCAAGTAAAACCTACTCCCCAAAAATGTGTGGCTTTGGGTCTGCATTAAACGCTGTAG
TCCATGTTTCATGCCAAAAATGGCTGGGAACGTTTGCTTTATTTACATTCAGTCAGCGTTG
CTTTCAGATCACACTTTATCCACACAGGAAAGCCAGTCAGCCTATAATGAAGTAGTTATT
AAAATAAATGTAATGAATATGTCTACAAAGTATAGTTTAGTGGTTTATTTTGCTAAAATG
CACATATATTTGATATAATTTAGTTTGAGAAGTTCAGCTAGTTTTTCTCCTTTGTTTGAC
TTTGTCAATTTCTATCTGGTTTTTAAGGGTCTGAGCTTAGCTTGTGCATGCAAGGTTTTG
GGTTTTTTTTATTTTTTTTTGAGCACAGCTTTTCACCTTTTAATTTGTTGGGTATTTTTTC
TCTTAATAAGAGAAATATTGGCCATCGATTTTACATATAATACAAAGTGTGTTTTTCCA
GTACCCTCNGCCCGCTCTAGNAACTAAGTGGAATNCCCCGGGCTGCAGGAAATTCGTGATA
TCAAGCCTTATTCGATACCCGTTTCGACCCTCGAGGGGGGGG

Sequence 5046

GGTACAGGGACGTGATGTTGGAGAACTACAGGAACCTCGGCTTCCTGGCAGGACTCTGTC
TTCCTGACCTGAATATTATCTCCATGTTGGAGCAAGGGAAAGAGCCCTGGACTGTGGTGA
GCCAAGTGAAAATAGCGAGGAACCCAAACTGTGGGGAATGCATGAAAGGCGTGATCACCG
GTATCTCTCCTAAATGTGTGATCAAGGAATTACCACCAATACAGAACAGTAACACAGGAG
AAAAATTCCAAGCAGTGATGTTGGAAGGACATGAAAGCTATGACACTGAAAATTTTTACT
TCAGGGAAATCCGGAAAAATCTACAGGAAGTTGACTTTCAATGGAAAGATGGTGAAATAA
ATTATAAGAAGGGCCGATGACCATAAAAACAATCTTCTGGTCAAAGAGTTCGACATAG
TCAAGGGGACGTAGAAAACAAGCATATGGAAATCAGCTTATATTAAGGTTTCAGTCCGG
TCTGGGTGAAATTG

Sequence 5047

AGGTACGGAATAGACTGGAATGGAACGAAATGGAATGGAATGGAATTGAATGGAATGGAA
TCAACCCGAGTGCAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATAACCCGAA
TGGAATGTAATGTAATGGAGTGTAAGGGAATTGAATACAATCAATCCGAATGTAATGGAA
TTGAATGGAACGGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATGCACTGGAA
TGAAATCAAACCTAGTGCAATGGGAATGGAATGGAATGGAATGGAATGGTATGGAATGGA
ATGGAATGGAATGGAACGCAAAAGAATGGAATGGAACGAAATGGAATGGAATGAAATGGA
ATGGAATGGAATGGAATGGAATGGAATGGAATCAACCCGAGTGCAGGGGAATGGAATGGA
ATTGAAGGCAATGGAATGGAATCATCCNGAATTGAATGGAATGGAATGGAATCAACCTT
GATTTCAATGGAATGCAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATTACC
CGAATTAGAATGGAATTGAATGGGAATGGAATGGGAATGGAAATAAAAT

Sequence 5048

CGAGGTACGCGGGGACGGTCACTTTTTCCAACAAAACCCACTCCATAGCCATGTGGATT
TTTATCCAAGGCTCAACAACCAGAGGGAATGGTGAGACCTGATAACTAAAATACTGTTA
TTGGCAAGGGTTTGAAATGTGTAAGAACCTAGGAGGGAAAGGAAGATTGAGCAACATAGG
AAAAGGGGAAGAGAGGCTGAGTGTACCAAGGTCCAACTCCATTTATAAAAATACTGCA
AAACCAGGAGTTGATGGTAGAAGTGCATATGATCCATGGCAGGAGTAAATCTCTCCACCT
CCTCTAACTCTCTGAAAACCTCTAGAGTTGGAGCAAGTCTTCCATTTGCTTCTTATCCCCT
TAAAGAATGCCTTCCACTTCCCAACAGCCCCCATCAAGGGACCCCAAGAGGCCACCATG
CTCTTATCTCGCACTTTCTTTCTTATTTCCCTTGCTTGAATCTGGAGTGGGGTTGAGCCC
TCTGCCTTCAACCTTAAGATTTAGGGGAAGTTCTTTCCCAACTGTCTACTTGGAAGGTA
GAATGAAGTCTTGAATTTTGAAGTAACGAATGCAAAATTCCTTTCAGCAGANGCAATGT
TATTTATGTACCTGCCCCGGGCGGGCGCTCTTAGAACTAGGTGGATCCCCCGGCCTGC
AGGGAATTCNATATCAAAGCTTTTTTTGAAANCCGTCNGACCCTCGAGGGG

Sequence 5049

GTTTCCCCTCACGGTGGACTTACCAAGAATTTTTTCAGCCGCTACCGTGTCTAATGAAGC

Table 1

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AGAAAGATGTGCTGAGTGACAGAAAGCAAACATGCAAGAATGTGTTAGAGAAACTGATAC
TGGACAAGGACAAATACCAGTTTGGTAAGACAAAGATCTTTTTCCCGTGCCGGTTCAAGT
GGGCCTATCTTAGAAAAATTTGAGAGCTGACAAACTGGAGAAGCTGCCTGCATCCGGATC
CAGAAGACCATCCGAGGGTGGCTGCTTGAGAAAGAAGTACCTCGGCCGCTCTAGAACTAG
T

Sequence 5050

CCGCGGTGGCGGCCGACCGGGNANGACCTGTTACCATGACACANANCGNCNATGACCACG
GNACCACACCAAGAATCATNTACCTCTATTACAACCAGACATTNGCACTNAAATAAGGAG
GTGCTGCCNTATACTTATCCGTTGCTGGAGGC

Sequence 5051

AGGTACAGGGTTGGCGCTCTGTTACCCGATTGCTTTCCAGCTGTGTCTGGTTCCCATTTCA
TGCTGCCTCCAGCAACGGATAAGTATACAGGCAGCACCTCCTTATTTGANTGCAAATGTC
TGGTTGTAATACGAGGTAGAATGATTCTTGGT

Sequence 5052

CTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTGGGTAAATGGTTTGGCTAAGGTTGTCTGGTAGTAAGGTGGAGTGGGTTTGAAC
GCTTTCTTAATTGGTGGCTGCTTTTAGGCCTACTATGGGTGTNAAAATTTTTT

Sequence 5053

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACATGAAGTAGAAGGCCCAAAA
TGGAGAGATAAATTATAATGGTAACCTTGATTGTGACAGAGCTTCTTCTTCATATTTGC
ATTCACAGCGTAGACAGTATGCTTCTACATCAGGCCCCCGCACAGGCATGGGCTCCACAA
CATGAAGGCAATCACAAATCTTNTNGAGANTATGTTCTTATTTATAAATATTGCCCAGA
ATTTTTCTTTTATANGGGAGGGCAAGATACATTTACATCTGACATCCTCGAAATTCTGCC
GCCACAGCGCCTNCTGACCACAGCCCCCGTCGGCTTTCTAATTCTGTGAGCTGCCCTCG
TGGGCNTGGCCTCCCCCGCGTACCT

Sequence 5054

AGGTACGCGGGAGGAGAGGCAACATACTCCAAATAGTTGGGTTCTTCAGGGAAGCTATTA
GAAACTCAGGTGACTTGTTAGAGCACTAACTTGGTCAGAGCCAAATCCTGGCAAACGCTG
CCTGACCTTCACTCTGTGGTTGGGGCAGTGAGAACCCTGAGGTCCAATGATGAAGACTT
GGAGGTCTGGATCCAGTCTCTCTTTGTTTAAATGTGACTTAGGTGCTGTCAACATTAGCA
AGATAATGGAAATCACGACGCCAGTGGGTGCTTACCTCCCTGCTAGGCATGCAGGGGCTG
GCGGTTGGCAGGGGAAGGAGGCCAGTGAGCCGAGTCCCTTAGGGGAGGGAGAAGTTTGT
CCTTCTTTGCCCCCACAGTCTACCCTTNAGGGGCCCTTTGTGGCAGTGCCAA

Sequence 5055

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTGTATTTTATAGTAGACGGGGTTTCACCATGCTGGCCAGGCTGGTCTCGA
ACTCCTGACCTCGTGATCCGCCCCGCTCGGCCTCCCAAAGTGCTGGGATTACAAACGTGA
GCCACCGCGCCTGGCCTTCCTTGCTCTTNTTGGTTCCAAATCCTGGGAACGCCTGAATCA
ACAGGCGGACATCTGTCAAACCTTCCTAGCAACTACGCCTGCGGATGGCCAACCTGACCC
TGGAAGACAGTGGGGTTTAGTTAAGCACAGATTGGACTTTTTTTTTTTTTTTTTTTTTT
GGGGTTTTTGTTTAGTTTATATCCTTCTTTTTTTTTTTTTTTTTTT

Sequence 5056

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAATGAACAAATATTTATTTAT
CTTTTATAACAAGTAAGGCAATGTTGCTTAAAGGAAGACAAACAAACATAAAAGATTCCG
TNGACAATGCATTTTTTCATCTGTTTCGGCACAAATGCTTTTGNCAATAAATGGGAAGTANGT
NNACNAGGCAAAAACTTTTCCCGAGGGAACANTTCCAGTTCTTTTCGGGCCGGGCAAGN
CACCTTTAAGNGGCCAGGAATTGNACTTTGNGTCTCGGNTTCAANAAATTACTCCTTAT
NCCTCTGGTTTTTCCAAGGGNANCCAGGTTGGGGTAAAAANAGGCCTTGGCCTTTTANTT
AAGNAATTGGAANGGGGCCCATANATNCCNTCCCCAAGNNGTTCATGTGNTTGGGGGAA
AAGNNGNTCTNCCCTTTTGGTNTATTNCCGGGGNTTTCCTGNAAAACCCCCCNGNAAC
CATGGTCCGGTCCGNCCCCANATCCTANGTAATAAACCCATCCGGGAGGGGNCCAANG
NTTGGGGGGGGGAAAGCCCAANANCCANNTTGNCCCTTNGTTNTTTNTAAAAATTGGAA
AGCCCNCCCNCTGGGGGGGNTCGTCCAAAGAGGCCCTGTTTNGNCCTTGGTAAGNNGG
CCTTTGGAAAAAAA

Sequence 5057

CCGCGGTGGCGGCCGAGGTACGCGGGGAGAACGTGTGCAGCTCAGCCAGCCACAGAACTG
GAATTTTTTCAGGAGCAGGGGGAGCATGGAGTTTGGACTTTGCTGAGCAACTGAAGTGGAG

Table 1

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CGCAGAGCTTGCTCGCTTAGGAGAGAGCATCATGGATGGCAAACAAGGGGGCATGGATGG
GAACCAAGCCCCGCGGGGCCAAGGGACTTTCCTGGCATCAGGCTTCTTTCAAACCCATTGA
TGGGCGATGCTGTGTCTGATTGGTCTCCTATGCATGAAGCTGCAATCCACGGACATCAGC
TGCTCTCTGAGGAACCTCATCAGCCAGGGGTGGGCTGTGAACATCATCACGGCAGATCATG
TTTCCCCACTCCATGAAGCCTGTCTTGGAGGTCTCTCTCTTGTGTGAAGATTTTATTAA
AAGCATGGAGCTCAGCACGGAGCCAGCGTTCAACCTGA

Sequence 5058

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATGAACAAATATTTATTTA
TCTTTTATAACAAGTAAGGCAANGTTGCTTAAAGGAAGACAAACAAACATAAAANATTCC
GTTGACAATTGCATTT

Sequence 5059

TTGTTGTNTCATTTTTTTTCTAATGTCTCCCCCTCTACCAGCTCACCTGAGATAACAGAATG
AAAATGGAAGGACAGCCAGATTNCTCCTTTGCTCTCTGCTCATTCTCTCTGAAGTCTAGG
TTACCCATTTTGGGGACCCATTATNGGGCAATAACACANTTCCCAAAGCNTTTGGACAGT
TTCTTGTTGTGTTTTAGAAATGGNTTTCCTTTTTCTTAGCCTTTTCCTGCAAAAGGCTCA
CTCAGTCCCTTGCTTGCTCAGTGGACTGGGCTCCCCAGGGCCTANGCTGCCTTCTTTTCC
ATGTCCCACCCATGAGCCCTCCACTGGACAGCTCAGGTAAGCCTGGCCCTTCATTCTGCG
CTGTGTTCTTCTCTGTGAAAATCCAANACCTCTTACCTCCTNTGCATGCAAAG

Sequence 5060

CCGCGGTGGCGGCCGAGGTACTTTGGGCTTGCTGGTGTGACAAAAAATACATTTGAGGTA
ATTCCAGTGAATTCTGCAGGCTCTCCTGTTGGGGATGTGCCATTCATCCGATCAGGATTG
CTGGGGTTTGTAGGGCCGGGTAGTTTGGTGTTCGTGGTTGGGAAAATGGATGGCTTACTG
AAGGGTTAAGTGGTCNGAAAGACATAATGCTGATGACATTGTTGCTACTGGATTGGCTGT
AGAATCAATAAAGACTGTTTATAGAGGAAGAATTGCTGTGTTTTCTGTGTCTGTATTTTA
TGATGAGCGCATTGTGGTGGTTGCGGAACAAAGACCTGATGCTTCTGAGGAAGATAGTTT
CCAGTGGATGAGCCGCGTGCTGCAGGCGATCGATAGCATTCATCAAGTGGGGGTTTATTG
TCTTGCTCTGGTGCCAGCCAATACATTGCC

Sequence 5061

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCGAAAAATAAGACAATTTATTTTGTNG
ATGACATGATTGTAAACCTAGTTATGCCTCTGCTCCCTCATTTAAAAATTAAAAATCAGG
CCAGGTGCGNGGCTCACGCCTGTAATCCCAACNCTTTGGGNGGCCCAAGGGNGGGCCTA
TCNCCTTGAGATCAGGGATTCTGAAGACCANGCCTTGACNCAACAATAAGTTGAAATCC
TGTCTNTACTATAANAACACANAATTANCCNGGGCGTNGGGGGTGCANTGCCTTG

Sequence 5062

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTGTGACTGCG
GATGGAGCTCCAGTTTTCTCCCAATTTTGCCTAGGCAGAGAAAAGTAGAAACAACCAGA
TGATGTCCACCCTGCTAGTTCTAAATCCTCTTTTGGGTGCTTGGTAAGGAGAGGTGGAGG
GAAGGGAATATGAGGAAGGGTCGTTTANGGGAATTAAATTCCTTGGTTGAGCCAATGGG
GCGGTGGCCTCTAGCTGTGGTCAGCACTGCACAGAGTANGGGTCTGGAAAGGAGAAAGAG
GCAGAAGAATCTGGCTTGAAGTANGATGCAATACTTACAACGAGGAACTTTCTCTGCC
AGATTCAAAGGGGCACATGGCTTTTGTAACTGGAGAATGAGGTGAGGTAGAGCTGTGT
TTTCCCTTACCCTGGCTTATCAAGTGGCCTGGCACAGTACCTTGCCCCGGGCCGCGCT
CTAGAACT

Sequence 5063

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTGCAGC
ATGCACTGGCATACTATAGCTTGGTCCAGCTCTTCCAGAGCCCCAACCCTTTCCAAATT
GAATCCTAAAGTTTTTGGTGCAGGACCCAATTTAAATCCATGTTTCTTCCCCGCGTACAA
ATTGCTAATCAAAGGAAGGTGGAGATGGTAGTTTTAATAAACAATTAGTAAAACGGGT
GTTGCTGAATACAGCACCCGGTAGCCTCTATTTGCAAACCCGGGGAGGGAAGGGGGTGCC
CCAACAACAGTGGCTCCGCCTCATTGTCCAGGCACAGGCAAACCGCAGTAGTGAGCTTTG
GTACCT

Sequence 5064

AAAGTTGAAGAGCAAAACGACGTGTCTAACGTCACACATTGAGCTTTAAAGACAGATGGG
ATCTGGCATGCGTTTGTCTAGTTAACAGTGCTNGCACAAATACAACCTTTGTTAAAATCGT
AAGGATTTTATGTCGTGAGACACTCAGGACTCACCTGATCTCGGNGTTCANTGTGNGCGT
AGTTTTTTGATTTGCGCCTCGCCCTTGGGCAAGTGCANAATCCTGGGGTTATACAAAGCTC
ATCNNAGTTAACCCCTTTGTCCANTCCGCAGAATGNGAGCTNAGAGCCCCGGCCATGGGA

Table 1

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GGCTCGGTTATNTNGGCAGGAAAATCAAGGAACCCANGTTTGAGCAGGGGCCG

Sequence 5065

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTNGNGGAAATATTTGCTTTTAAACATTTGATTTTCATCAATCTT
TGGATGATTTGACNTTATTGTCAATATCTAGTAAATTNGCCAAAATATTTTTTTTNTTCC
TTGCGCCCCCTTTCCNCNTAAAACTGGGGCGGGGNGAATTTTCTGTTTCCTAANCA
GGAAGGNGGCAAAGCTGG

Sequence 5066

CCGGGCAGGTACCAATTTACTGTATTAGTCCGTTTTTCATGCTGCCGATAAAGACATACCC
GAGACTGGGTAAATTTACAAAGAAAAGAAGTTTAATTGAACTTACAATTCCATATGGCTGG
GGAAGCTTCACAGTCATGATGGAAGGCAAAGAAGGAGCAAGTCACATCTTACATAAATGG
TAGCAGGCAAAAAGTGAGATCTCATGCAGGGGAGCTCCTCTTTTTTAAAACCATCAGATCT
CAGCTGGGCACAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCTGAGACAGGCAG
ATTATCTGAAGTCAGGACTTCAAGGCCAGCCTGGCCAACATGGTGAAATCCCCTCTCCAC
TAAAAATACAAAATTAGCCAGGCATGGTGGCAGGCAACTGTAATCCCAACTACTTGGA
GGCTGAGACAGGANAATCA

Sequence 5067

GCCCTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGCGTCTTAGTCTGTCGCCAAGGCTGGAGTGC
AGTGGCGCAATCAAAGCTTGCTGCAGCCTTGAATCCTGGGCTCAAGCAATCCTCTTACC
TCAGCAACTAGGACTACAGGGCACATGCCACCACGCTTGGCCTTCTAATTTATTTCTGNG
TCAACAAAATAAACTCAGGCCTAGGAATAGCTTGGTTCAGAAATCACAGAGGGACTTAG
TATTCCATTAATCCCGCGTACCT

Sequence 5068

AGGTACGCGGGGCACCAGAAACATATGAAGAATATGGATATGATGATACATACGCAGAAC
AAAGTTACGAAGGCTACGAAGGCTATTACAGCCAGAGTCAAGGGGACTCAGAATATTATG
ACTATGGACATGGGGAGGTTCAANGATTCTTTATGAAGCTTANTGGGCCAAGGTACCGAC
CTGGGAATTGGGGTACCAGGCNCGTTNGCTGAAGGCCCTCCTGCTAGACCAGNTGGAAG
GGGAGCATACAGTAGAGTCACCCATTATGGGACGTTATTA AAAACAAACATTGANNGGGG
GAAAATATTCAGTTTATTGAGGCAAAAGGTTTGNTTACTTGAATTTTCTTTGTAATCTCC
CAGNGATTTGCTGTTGGCTTTTTTACCCCACTAACCAAGGACCAAAGTTAAATTAGTTCC
TANAGATGGTNTTTTCTATCNGTNGGTTCCCNNTTTCTTTCTTCCCCC

Sequence 5069

AGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTAGAGATGGGACTTCCTACGTTGCTCAGG
CTCGTCTTGAAC TNCNGAGTTCAAGTGATCCACCCACCTTGGCCTTTNAAAGTGCTGANA
TTACAGGTGTGAGCCACCACACCTGGCCAAAATAATAAANATTTTTAATTCNTGNTAA
AAAAAANANAAGNGCAGCAAAAGTGGNAAAATGTTGTTTCATNCAACAATANCTCTTTT
CTTTCACACATNTGGAAATATAAATATGTATCCATTTAAATTACTAACTATCCANGTTGA
ACNCANCCCTGAA

Sequence 5070

TGGGCCAGTGGTTGGGGGCAGAAAGAAGGTCAGAGGCCCTGAACAGATAAAGCAGGAGGT
NGAGAGTGAGGAGGAAAAACCCGACAGGATGGATATTGACAGTGATACACAGATTCAANC
ACATCTTTGCAAACAAGGGCTAGAGAAAAGAGGAAGCCTCANCTGGAGAAGGACACAAAG
CCGAAAGAGCCCAGGTATACTCCCGTGAGCATCTACCGAGGAAAAGCTGCTGCTCAAGAG
GCTGGAAGCTTGTCCCGGTGCTGTTGCCATGACTCCGGAAGCTCGGTAGACTGAAACNCA
AACTGATTGTGACACAAGCGAAAAGGGATAGGGGATTACCACTTTTTGACTTGGATCAAG
TTGTTAATGCTGCNTCTTTTGTTAGTTTG

Sequence 5071

AGGTACGCGGGGGACATATCACCTAAGCTCTGGATTTCGAGATAGGCCCAATCTCTTTT
TTGGGCAATGCTCGGGTAAGAGAGCAGAGTCACATCAAGTGGTTGATGGGCCCAGAGATA
TATCACATTGCCCTTGTGGACAGGGACCAGNCCAGGGGGACTCACATCACAATAGAGGT
AGGACAAGGAATACATCACAATACGTTTTGAGAGCAGAACC AAAAAAGAGTAACATAATC
TTTGTGTTGAGTGCAGCAATATGTTACACTTTTCTTTGTGGGCAGAACGTGTAAAGAAGG
AAAAAGTTGGCCGGACACGGTGGCCTGTAATCCCAACACTTTGGGAGGTCAAGGTGGGCA
GATCACCTGAGGTCAGGAGTTNAAGACCAGCCTGGCCAACATGGCAAAACGCTGTCTCTA
CTAAAAAATNCAAAAATTGGCTGG

Sequence 5072

Table 1

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TNGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGGGCTCTCAACGTGGTG
TGGAAGGTAGCCTGTTACAGTGCTGGATTTCATAAAAGGGTCTTTATGGTTTGTGAAAGAA
TATCTGTGTGCTTAGGGAGGAACTTTTTGATCTGCAGAAAAGCCAGAAGACATCTAGGA
CATCCATAAAAATTCATCAGAGAGCATTTTACTACTGAGCTGCAAAGGGAAAACTTAA
ATGGATATGAAAAGTGAAGAGAGTGATCATAGGAGAAAACCATTTTCAGATGACAAGAGCA
CCTCAAAGGCAGCAGCCTCAAGGAGCAGCCATGGCCCCAGACTTGTCGCACGGATGCAGA
AACTTAATGGAGGAGGCTGAGGTCAGA

Sequence 5073

AGGTACGCGGGGATGCTGCCATGGCTGCAAGACCTCATTCAATTGATGGGAGAGTAGTTG
AGCCAAAACGTGCTGTANCAAGAGAGGAATCTGGAAAACCAGGGGCTCATGTAAC TGNGA
ANTAANCTGTTTGTTCGGNGGATTTTAAAGNAAAATTTCTTGNGAACCAATNCANNCT
TTAGNAGNATTANCTTTTAGAGTGANATAATTGAGAAAANAATNTGCATTACCCANTTTG
TANTATAAATATAACTTGTATTACGTGCCACGTATCCTTGGTAATAGGAAAAANGTAGGG
CNTTTATNNGTCNTATTTGTTTATCTTTTTTTTGAATGGGAACCCANTNGTATTCACCTT
NTTGGCAATTANAAAAATTCNNGTGAATNTTGGGNAAAGAAAAAANTTNNNTCAATTTAC
CNCAATTCCNAAATTNGGGGGTTCATTTANATTNGCCTAANNAAATNTTTANAGGTAAA
ANAGNGGTCCTTTTNTCGCTTCNTTAAGGTAACCAAAGGAAAAAATTTGNCNANAGCGG
AAAAAGNNTCTTCNATAGNAATNTTTTCTTAATGGGAAGGTTGNGTAAANGAAGTGNA
GGGNCCAACACCTTTTTTGGGCCTTTTTTG

Sequence 5074

CTGAGCGCCGACCCACGCCCTGCCTGCTCTTCCAGTCCAGCCAACACTCTAAGCAGGCAC
CGCCTCCACTCGCAGCCCCCGGGATGGGTCCCCTACCAGCAGATCCCCAGGCCCCC
TCCACCCAGTCGGCTAGCCCTCGCCTTTGCCATCCCGATACTAAAATGTCTGATGATGCT
GGTGACACCTTAGCCACTGGAGACAAAGCANAAAGTTACTGAGATGCCTAATAGTGATTCT
TTACCTGAGGATGCAGAAGTGCATTGTNGATTGAGCTGCAGTTTCACATGAGCCAACACC
AGCTGACCCCANAGGGGAGGGGCATGAAAATGCANCTGTGCAGGGTGCAGGGGCTGCCGN
CATTGGGCCCCCTGTGCAGCCTCAGGATGCCANCGCCCTGGAAGCCCCCTTCTCAATGGA
AGACCGTG

Sequence 5075

AGGTACATCAAAGAAAATAAGATATACCTTTTTTTTTTGAGAGGGAGTCTCACTCTGTGCG
CCAGGCTGGAGTGCANTGGCGCGATCTTGGCTCACTGCAACTNNTGCCTTCTGGGTTCAA
GCTATTCTTCTGCCTCAGACTGCCGAGTTAGCCTNNGGGATTNACCATATTGTNGCACCTN
ACNCNACCGNGCCCNNTTCTTANNAACTTAGGTGNGAATNCCNCCCGGGGCTTNGTC
AATNGGAAATTTTCTNTATTATTCCANAGGCCTTTTATTTTCNGAATTAACCCCNNTTNCN
GANCNCTTCTTNAAGTGGGNGNGGGNGACNCCCGNAGATAACCCACNCNAGNCCNNTTTT
TTTGNTATTTCCCCCTTTTTTAANGATTGGANGNGGNGGTGTTAAAAATNTGGCCCGNC
CGGCCNTTATGGGGCCCGTTAAAAANTTNCAANTNNGGGGGTTTCCAATTNAAGNCCCTTG
GGTTTTTNTCNCCTTGGTTGGTTTGGTAAAAAATTTTTGTTTTTAAATTCCGCCAGTTC
TTCTAACCAATATTNTNCTCCAACCCANCNAAAATCNAATTAATCCGGNAAGNTCCCC
GGGGNNGTAAAGGCCCATTTAAANAAGTTTGGGTAAANANAAGGCCACCTTNGNGGGGG
GG

Sequence 5076

AGGTACTTTTTTTTTTTTTTTTTTTTCTGAAATGAACAAATATTTATTTATCTTTTATA
ACAAGTAAGGCAATGTTGCTTAAAGGAAGACAAGCAAACATAAAAGATTCCGTTGACAAT
GCATTTTTTTTCATTCTGTTTCNGGCACAATTGCTTTTTTCGTCCANNANTNGGAAGAATTGT
TGACCAANGGCAAAAACCTTTTNCAGGGGAACAATTTCAAGTTNTTTTCGNGGCGGGGC
NANGNCACCNTTTATNNGGGGCAANGTANTGTANCTGGGGCCACGNNTTTTATTATGTAAT
TGAAGGGGCCTCAAATANGTCAACCCCATGTGTTANTGTGTTNNGGGGAAANGGGTATTCC
TNTTGGTTANTTTCCCGNGGTTTTTNCGGGAAAACCCCNCTGNAACCAAGGTCNGTCCNGCC
CCAAATCCAATGTAACCAATAACCNACCTTTANGGTGGTCCAANTTTNGTGTGNGNTAAG
NCCAAAAACCA

Sequence 5077

AGGTACTGATTTTAAAACTAATAACTTAAACTGCCACACGCAAAAAAGAAAACCAAAG
TGGTCCACAAAACATTCTCCTTTCCTTCTGAAGGTTTACGATGCATTGTTATCATTAAC
CAGTCTTTTACTACTAACTTAAATGGCCAAATTTGGAACCAAACCAAGGTTTCTGAA
GACCCGTTCTTTCCACNCACTTGATTAAGAAGTTGGGGGTGGGCCAGNGNTATTAAGTGG
GATAAATATTTCAATTTTAAGCCCTTTCTGAGCNTTCTTGGGGCAGACTTTGGATGAACC

Table 1

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TTTGCCAGCCTCNCAGCCAGCCTTCTTTGTCNCACCTTGGCTTTTGGATGGACACCCC
CACCCGGCAAACCTGGTTCTGGTNCTCAATATTCAACGGAACCAGNCAAATAGNCCGACCC
CAAAAAGNGTGGGGATTAGGTNCTGGAGNAAGGCTCTTCAACCACCACCATTGGGGCCTT
TGGCCAGGGGAAACCCATTATTCAAACCAATGGGG

Sequence 5078

GGTGGCGGGAGGAACCGTTACGGGAACCTGAAGTTGCGGATTAAGCCTGATCAAGATGACA
ACCTCCCAAAGCACCAGAGACTTCGTGGCAGAGCCCATGGGGGAGAAGCCAGTGGGGAGC
CTGGCTGGGATTGGTGAAGTCCTGGGCAAAGAAAGNCTNNGGTNGGAAAAGGGGGTTTTT
TGGACAAAGGCCCTTATTGTTTGTCTTTGGGCCAGTTTCTGGGTGNCTAANAGAAAA
GNATGATAGACTCTCTTCCGGGNAANTGGGCTGGAAAAGNACACNTTGTGGNNGCCCAT
ACGGCCCAAGGCAGTCCCCGGGNACCTGCATTTCCGNGGANTGCCCTTTCNGAGTAGGTG
GGTTGGCNGAACGACNCTTTCTTTGGTGNATNGCCTCCTTCTTGGGGTAAAGGCTCTTCA
AATTCCCCCANGCNCTTCAATCCCAATAGTTTTTTTTGCCAAGCTCGTAGTTAAGAGGGN
AACCTTCNCTTNCCCCCCTGGTNCCCCCTTCTTAACCGGAAAAGNG

Sequence 5079

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTAGTTGGTTGGTTGGTTGGTTTNTTGTGTTGTTTCGAGACGG
GGCTCCGGCTCTGCCGNCGGGGGCTGCAGTGCAATGGCNCNATCTCACCTCACTGNGGCC
TNCTGGNCTCAAGCGAATCCTTNCANATGTTGCCAGGNCTGNAGACAGNCTTTAGAGAA
AGAAGCATNGGGGAGTTCTTCCGAGGACAGACAAGATTTCTGGAGTTTGGAAGGGTGAG

Sequence 5080

TATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGCAAAA
GCACCTGAAGTCATTAAACCAGCTCATATACTGCAAGAGAAAGAAGAACAGCATCAGTTG
GCTGTCACTGCATACCTTAAAAATTCACGAAAAGAGCACCAGCGGATCCTGGCTCGCCGC
CAGACAATTGAGGAGAGAAAAAGAAGCGCCTTGAGAGTCTGAATATTCAGCGTGAGAAAG
AAGAATTGGAACAGAGGGAAGCTGAACTCCAGAAAGTGCGGAAGGCTGAGGAAGAGAGGC
TGCGCCAGGAAGCAAAGGAGAGAGAGAAGGAGCGTATCTTACAAAAAAAAAAAAAAAAAA
AAAAAAGGTNCATGCTAAGACTTCACCAGTCAAAGCGAACTACTATACTCAATTGATCC
AATAACTTGACCAACGGAACAAGTTACCTTAGGGAT

Sequence 5081

TCGGTGGCCGCGCTCAGGTATGCGCAACTCCCCGAGAAGTCCTCGAAAAGTGTCGACGG
GGACCCTAAGGCCGACATNGTCCTGTCTTCTCCCGCGTACCAGACCCGACAGGACCAGN
TGCATCTATAACACCACCTACCTGAATGTTTCAACNGGGGAAAAATNGGGGACCCANTCT
TTCCANGATAACNTTGGNGAAGGGCACAATGNANCCATTTTTCNCTNCANCTTNGTNTTG
ANTCCTTCCAGNGGNACATCCCAANGAACNCTTACCATGGCCTGTGNCTNTTTTGAACGN
TGNAAACCGTAATGNATGTANANCAANCCTGGGGGGGGCCTTGTAAGTGGTACTTATTGCT
TGGACCAAANGCNCCANTAAGGACCNTACCTCAATANNGTAAGTCCANACCTTGGGGGAA
AGTANGGNTTCTTAACCGNAAAANGCCTTNCTTCCGGAACCTT

Sequence 5082

AGGTACTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCATTGGG
GGCNCTTTTATTTNCAGCCAAGGAAAAAANAANCTANCNTNTATTNAAAANGGNAAAGC
NTGTTTGTATNAAANCAAATATTNCATCATCACTTATTTTCTATNCNGTTGGAANCTAAG
TTTNACATTTTTCATTTNCAACANANATTTGAATTTNAANGNCCCAAAAATATAAANAAN
ANGGCNTTAAANGNCCTATNTGTNGGCAGCCCTNCCCTGAAAACCTT

Sequence 5083

AGGTACAGCCACCCCTCTGCAACCCGAAGAGACAGGGAAGGGTATATACAATGAAACCCC
TTATATACAACCTTCTGTTACTCGCATTCAGACTGCTACAGCTTTGTGTCACTTCAGANA
GCAAATCCTTTTAAAAACAGATGGTNAAAGANAAAATGAGAAAGACTTCCCCAAAAAAA
GGATACTTCCATTCCACTATACTAATGCAGGCTCTTCGGATGGGGTTATTGAGTGATAAA
CAGAAAAGGGCGCGGGCAGGTCGGCTGTTGGACGAAGTTACCCTGTTTTTTGCTCTTGGC
GTATTGCTGACGTTTTCTTTGGGAGAGAGATCCTACAGGTGGGGGGTGACAGAGGTGCTCA
TAGTTTGGGCAGCCTTGGCCTGTCTAGCAGCATCGATTGTAGCTTGCCAAGACAGGACAG
TTTGCTTGGAGCTATGCCGCTGAAGAAGTTGGTCCTTCACCAGAAAGAGGAAGTCTGGTG
CCTCTTGATAAGTTTGCCTCTGGGGAGAAGGAGAAAAACAAAATTTTTTTTTTTAAATG
AGGATCCAATGGGTAGGAGAAA

Sequence 5084

CCGCGGTGGCGGCCCGCCCCGGGCAGGTACATTAAATAATAACAGAAACCAAGAGTTTGT

Sequence 5090
CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGG
AGACGGAGTCTCACCCTTGTTGCCCAGACTGCAGTGCAATGGCCCAATCTCGGCTCACTG
CAGCCTNTGCCTCCCAGGTTTCAGGCGATTCTCCTGCCTCANCTCCCGAATAGCTGGGAA
TACAGGCATGTGCCACCATGCTCGGCTCATTTTGTATTTTATAGTANAGACAGGGTTTCGT
CATGTTGGCCCGGCTGGTCTCGAACTCCCGACGTCTGGTGATCCACCTCCCAAAGTGCCG
GGATTACAGGCATGAGCCACTGCGCCTGGCCCTATATAGACTTTTTTAATGTGACTTTGTCT

Table 1

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AAAACAGATATTCCCAACTTTATTATTAGAATTGAGAATGCAAGCATTACTTAGTAGGAA
AAATATTTTGCTTGAATTCCCAATGATTTGTGGATATAAATTCTACTAAATCATGTACCT
Sequence 5091

CCGCGGTGGCGGCCCGGGCAGGTACCTTGATGGCTGTTTGTGGTCATACACTCCGTG
GACCAGTCTTGAGGGATCACAGGGCCAACCAGCTCAGCAAACCTCTCCAGAGGACAGCTG
GGACTGCCCCGCGTACGCGGGGAAATTGAGTCCTTCTATGAAGGAGAAGACTTTTCTGAG
ACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATGGATCTGTTCCGGTCTACTATGAAG
CCCGTCCAGAAAGTGTGGAAGATTCTGATTTGAAGAAGTCTGATATTGATGAAATTGTT
CTTGTGGTGGCTCGACTCGAATTCCAAAGATTGAGCAACTGGTTAAAGAGTTCTTCAAT
GGCAAGGAACCATCCCGTGGCATAAACCAGATGAAGCTGTAGCGTATGGTGCTGCTGTC
CAGGCTGGTGTGCTCTCTGGTGATCAAGATACAGGTGACCTGGTACCT

Sequence 5092

CCGCGGTGGCGGCCGAGGTACGCGGGGGCACAAGCTGTAACATGGCGGCAGCGACTGCGG
CCTGAACCTCTAGGGAGCCGGGTGATTTTAAAGCTTCAAAATCCTAAGACTCAGCACTG
TTGCGGGGAGCACAGGGATCAGTTGTCCTTGTTTTTTTTTGGTCTTTTCTTCATTTGAAG
ATTAAGTATTGGAGCCATGGGAATAAAGGTTCAACGTCTCGATGTTTTTTTGACATTGC
CATTAACAATCAACCTGCTGGAAGAGTTGTCTTTGAATTATTTTCTGATGTGTGCCCCAA
AACATGCGAGAACTTTCGTTGTCTTTGTACCTGCCCCG

Sequence 5093

CCGCGGTGGCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTACAGTTTTTGATA
TGCTTTATTTTGGGTATGTAGTTTACAAAATATAAAGGAAATATAAGGAGTGTTCTTTT
TTTTTTAAATAAAAAGTGTATTTTAACTGGGCATGGTGGCTCACTCCTGTAACCCAGC
ACTGTGGGAGGCTGAGGCTGGTGAATCGCCTGAGTCCAGGAGTTTGAGACCAGCCTGGGC
AACAAGGTGAAACCCTGTTTCTATCAAAAAAAAAAAAAAAAAAAGGAAAAAAAAATAAGTC
AGGCATGGTGGTATGCACCTGTGGTCTCAGCCTCCTAAGTAGCTGGTATTACAGGAGTGT
GCCATTAGCCCGGCTAATTTTTGTATTTTAAAGTAGANATGGATTTTCATTGGGTGGCC
ATGCTGGTCTTGAACCTCCTGACCTCGAGTGATCCTCCTGCCTTGGCCTCCCAAAGTACC
TCGGCCCGCTCTANAAC TAGNNGGATCCCCCGGGCTGCAAGGAATTTNATATCAACTTAT
TNGATACCCGNCNACCNTNANGGGGGGNGCCCGNACCCAACCTTTTG

Sequence 5094

CGCGGTGGCGGCCCGAGGTACATACCCCATGGCCCGTTACATTAATATGCAACTGAAAAT
CCAGAACAGAGAACTTGGGAAAAACAATAAATACTTTAGTATAAGCCTCTCAGCTGACAA
TGACCCAAGGACTGTTTCAGCGGCCAGGCACCTGAGGAGCAATGACAGTCTACGAGGACA
TCTTCTGCAGCAACAGCCATCAGGAGACCAGCAGCAGCACAGCACTCAGGGCTCGGTGTC
CACCTCCCTGCAGATCACTTTCTCCCTCACTGGAATCAACCGCAGCACTTGGAGTCTACT
CATGGAGTAGAACTTCTTTATGGGGTCTGGCAGAGGCAGCGAANGAATCAGATGAAGCC
GGTGTGTTGCCAAGAGCTCTTNTNACAAGCCACACGGCACAGACACAAGCAAGGTCTGGG
AACACTTCTGGCCTNTTTAAAGACCTGCAAGGGCTCAGGGGCCACTTTTNTTNTNCTCT
CGACTCTGGGCCCCAACGATTNCCACTTTACTAAGATTCANGGTGGCTTCCAAATTTTCCA
ACNGCTTACCAAAGNTTGCTTAAAGCCGNGGGGCAANAANATTCCTTGACCCNCCA
AAAGGGGGCCCTGTAAAATCCTTNTGGGTGTCGGGGNCNTTGGCATTNNAAGTTAGGGT
TCCNNCCCCCNGAAGGGCCACCCGAAACCCTTGAGAGTTGGGGTAGGCTTCCCTTTTT
TAACCTGCCCNGGGNGGCNNAGGGNNTTNNNTTNTTTTTTTTTTTTNGGGAAAAA
NG

Sequence 5095

AACCCGNGTCTTCTCAGCTCCGGGTCTTACACTCAGNGAAGACTNGCCCTACGAAACTT
TGCATTCTTTCATTAGCAATGCNGTGGCTCCTTTTNTTAAGTCCTACATTAGAGAGTCTG
GCAAGGCAGACAGGGATGGTGATAAAATGGCTCCTTCANTTGAAAAGAAATTCAGNAA
CTCGAAATGGGACTCCTTCACTTGATGCAAAATATTGAAATTCCGGAGATCAGCCTGCC
GATTCATCCAATGATCACAAATGTTGCAAAACAGTGTTATGAGCGTGGAGAAAAGCCAAA
AGTTNCAGACTTTGGTGATAAGGTTGAAGACCCAACATTTCTTAATCAGTTACAATCTGG
AGTTAACNCGCTGGATCCGAGAAATTCAA

Sequence 5096

CGNCCGGNCAGGTACTTTTTTTTTTTTTTTTTTTTGANACNGAGNCGCGTTGCTGAACCAA
TGTNAAAGCTTCATTGTTGNATTTGNACATNACAAGAACTGGATGGCAAACCCATAGTC
ACCAAGCTGTATAAAAA

Sequence 5097

Table 1

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CCGGGCAGGTACTTTCTTCATTTCCACCTTTGCCCAAGTCATCTGCTTTTTTCATGGACCA
CCAGTGTGCGGCCAATGATGCAATGGTCTCCTGAGAGTGAGATCACAGAATCTTCAATAG
ACACATCGGCCACACCATCTTTGTCAGCAGTCACATTGCCCAAGTCTCCAACATGCCTCT
CTTCATCCTTTGGCCACCGTGTTTTCTGGATAGAGGATTAAAGTGAGGACCTGCACTGG
TACGCGGGGAGCACTGCCTGGCTCCACGTGCCTCCTGGTTTCAGTATGGCGCTGTCCTGG
GTTCTTACAGTCCTGAGCCTCCTACCTCTGCTGGAAGCCAGATCCCATTGTGTGCCAAC
CTAGTACCT

Sequence 5098

CCGGGCAGGTACAGGAGCCCTGATAGCCATACTCGCCTGTGTTTTGACATTATTGGTGT
GATCCTCCTTATCGTCACTATGAGAAGACGGAAAAAGAGCCCCTTATTTTTGACGAAGA
AAGAGACATCAGAGAAAATATTGTGAGATACCGATGACGAGGGCGGGGAGAGGAGGACA
CGGAAGCGTTTGACATGGCTGCACTGAGAAACCTCAACGTCATCCGAGACACCAAGACCC
GGAGGGATGTGACTCCAGAAATTCAATTCCTGAGTCGACCAGCTTTTAAAGCATCCCAG
ATAATGTCATCTTTAGGGAATTTATTTGGGAAAGATTAAAGAAGCCGA

Sequence 5099

AGGTACGGGAAGGGTATAACCAACATTTTCGGGGTATGGGCTCGATAGCTTATTTAGCTG
ACCTTACTTTAGGATGGGGTGTGATAGGTGGCACCCCGCGTACTGCCAGCTCAGGGCAGC
CAAAAGCATGACAAACGACAGGTAGATGGGGGAGTAGTGGCTTCGGGAAATCAGCCGACA
GTTGGGAAGATTCTGCGTCCGGATGGTGGAGATGATCTGCCTTGTTTTGCTAGAAGATGG
GTCTGAGTCGGGGATTCTATGATAAATCTCTTCCATATACTGATATATGATGGCTTTGAC
AGCTGGCATAATTGGTGGCATCCATCATCAGGGTCACTGCTT

Sequence 5100

CCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGA AAAACCACTGG
GTTCCGAGTTCATTACTACAGGAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTT
CAAAGCAGAAGTAGCAGTTCCGGAGTCCAGCTGGCTAAAACTCATCCCAGAGGATAATGG
CAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGGTGGTGTGGAATGGTGGGCACAG
TGGCTGTCACTGTCACTGCCTCAGTGGAGAGTGTGCGCCTTCATTGAAAACAACATCGTGG
TTTTTGAAAACCTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGA
TGCACTGCAAAA

Sequence 5101

CGCCCGGGCAGGTACCGGGATGTGATGCTGGAGACCTACAGCCACCTGCTCTCAGNAGGG
TATCAAGTTCCTAAACCAGAGGTGGTCATGTTGGAGCAAGGAAAGGAACCATGGGCACTG
CAGGGTGAGAGGCCACGTACANCTGCCAGGAGAGAAATTATGGGACCATAATCAACAT
AGAAAAATCATCGGTATAAAACCAGCTTCCTCTCAAGATCAAAAAATTTATTCTGGGGAA
AAATCCTATGAGTGTGCTGAATTTGGAAAGAGCTTCACCTGGAAGTCACAGTTCAAGGTA
CCTCGGCCACCT

Sequence 5102

TCCCCGCGGTGGCGGCCGCCGGGCAGGTACNCGGGGAGAGCATGCTTTTTCTGTTTGG
CTGGGAAAGGGAAGGCTGAACTGCTGAGTCTGACACTTAACAGGACTTCGGCCTTCCCCT
GAATACAGACTAGATCANAGATTTTATTTTTTTAATTGAAAAAGNNACTNNGGTNTCTTC
TTTAGAAACCCTAATTTGGTGTGCNCATCTTGGCTATTTTACANAAGATGNTCATCTTN
TGCAAANGAAGTCCGGAGTTGATTTCTTNCCTCAGACAAGCTATTGGTTGTTGGTGGGCA
ACAGAAGTTGCTCAGCATAGACAGGGG

Sequence 5103

GCGGCCGCCCGGGCAGTGNACTTATAAGCAGNNCAGACAACCAGAAGTNNCNTNACNAAC
CNGAAAAACANNGNGCANGACCGACTACCCTAGCCNNGCCNGGACCGAGGGACGCAAGAG
AGNCCAAGCGGAGGAAAAANACAGACCGCAAACAAGGGCGNGGNCCCCACACGGCCCAG
AANCACNNGAAGCAGAAGGGAGCANCCAGGGCCAGGAGAGGGGCNCGCAAACCCANAAAC
CNCNGAGGGGAAGGCNANCNGGCNANACNGAGCAGAAACAGAANGANCCGGGAGCANNNG
CNNGCCANCGAAGGCNAAAGACGGGAAAAGGGGGGAACCGGGCAAAGGCCGCCNAACA
GGAGCGNACCCANGCANCCCNNGGACCAACCAGAGAGAGGGAAACCAAGGCCCAAAAACC
ACCCAGGGGAAGGCCCNCCAAAAA

Sequence 5104

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGCTGGTTCAGGGTCTGAAA
CANAGTTTGGGGCTTGTTNNGGATTAGTGAAGCTACTGCCTTTGCCGCCAGCGCAGCCTC
AGAGTTTGATTATTTGCAATGTCAGGCTTTGAAAACCTTAAACACGGANTTTNTTACCAG
ACAAGTTACAAGCATCTATGATCANGTCACAGCAGNCCTATGATTATGGAGGAAGTGGAG

Table 1

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GACCCTATANCAAACAGTATGCTGGCTATGACTATTNCNCANCAAAGGCAAGATTTNTCCC
TCCANACATGATGCANCCACAACAGCCATACACCCGGNCANATTTACCAGCCAACNTCAT
NGCTTTNTACTTCCANCTTTCACCTNAGCCCTTTTCTA

Sequence 5105

NGNAAAACACAAAGAAGCANGGTCTGTGAATAATGAGCCATANCNCACAAAAAATGGCCA
CAGGAATCCTATANAACAACACTACAGGGGACNNNAGACCNCCATTCACCACCCNCGGCC
TTAAGANACGAAGCCCTGACATGACCACANCCAGCCAGC

Sequence 5106

NNCCCACNCCCNGGGGGGGGNCNNNAAAACCCCCAAACNNCCCACNGGAAGGGGGCCAAG
CCCNCCCCNGGAAACNGGGGGNGGGGGAACCCAAAGGGGCCANGNNNAAAGGGGGGNGG
NGCGGGGGNNNGGAAANNGGGCNGGGNCCCGCCCNCCNNANAAAAACCNAAAGGNNGGG
GAAACCCCCCCCCNGGGGGCCGGGGCAAGGGGGAAAANNCCGGAANNAANNCAAAAGNC
CCNNNAANANNGGAAAAANCCCCGGNNGNCGAAAACCCCCANNAAGGGGGGGGNGGGGGG
GGGCCCCCGGGGGGGNNCNCNCAAAAANNNNANANGGGGNGACCCCCCNCNAAANNNG
GGGNGGGGGGGANAAAAANNNNGGCCCCCCCCCNNGGGGGGGNGAGAAAAANNNCANA
GGGGGGANAAAGANGGGCNGGGGNCC

Sequence 5107

AACTTNCTTTTTTTTTTTTTTTTTTTTTTTTACGCCATTTTTTTTNCGGGTCTGGGAGNNGG
TAATTTGCGCNCCTGCTGCCTTCCTTGGANGNGGTAGCCGTTTCTCAGGCTCCCTCTCCG
GAATCNAACCCTGATTCCCCGTCACCCGNGGTNACCATGGNNGGCACGGCAACTACCATC
AAAAGNNGATAGGGCAAGACGTTTNAANGGGTCGTCNCCGCCACCCCGNGNACCTGCCCG
GGC

Sequence 5108

NCCCCGGCCGCCCGGGCAGGNACTCTAGGGGAGCNCCTGTNAACCAAAGGAGGGGCATAAA
CCGGNCCAGNCCNCCAANNCCGGAAGNGGCCANGACANCAGAAAAGNNGGGCACNGCNC
AGGAAAAGAAANNGGGGCNCNANNACAACAGGGNGCGAGAACAGGGGGAAAAAAAAGGGG
GGACCAAANGGGAAAAAGAGGAACNNCNGAGGGACANAAAGAACCCNAAAACCGANG
GCNACNAAAAAAGCAAGAGCANACCNGGGNAAGACCAAANNNNCNCCCCNCCCCCNAAA
AGAGGGNNNNAGAGACNACACCAGAAANAAAGACAGNNNGAGGGGGACCNCNGNAGAACA
ACAAGGGNCNNANNGNGGGGAACNAAAAANAANNCAAGAACCAAACAGAGAGCCACCCGGC
CG

Sequence 5109

GGCGGCCGCCCGGGCAGGTACNCAGGACAGAGNTNTACNACCCGAGTGNNTGCCACACCG
ACCAGAGNNNGGAGCAGCAGGCGTGCCAGCNGGAGGGGGCCGCACCATNGCCAANANCCN
GGAGGCCANNGGGCNGNCNACACAAGACCNGCCNCAGAAACAGGCNNGGGGAACCGGGAAA
GGGGGACCGGACCACACNGNGGNGAAANGAGGAAANGGGAAAGCCCNNGGGGGGCANGCA
ANAAACCACCACCNAAACAAGAAAGGCAAACAAAAAGGAAAAGGCGAAGCANGGAACNNN
AGCNGGAGGGGGAAAAAAGGNGGGGAAGCCCAAACCCCCAAACNNGGCAANGNCCGGNAGGG
AGGGAAGACAAACGGCCCCCNGGGNGNANACCAACCCCANAAANCCCCCGCAAGGGGC
CCCC

Sequence 5110

GGA CTGAGTCTTAAGCGTNTTACCACCCGAGGGNTGAAAANCCGCNANGAGCNNNNGGG
AAGGGGGNGCTGAAACCCGGGGACAGAGGACGCACGACAGACNAGGAGGGAGCCGGGAGG
ANGGGCNGCAGCNGCGGAGGAGGGGCNCAAAAGAAGAGAGGCCGGAGAGCANAGGCCNGA
GAAGCCANAGGCAGGNGGAGAGAGGGCGGAAAGNGAGCANCGGGCNGGGCNGGAGCCGCA
CACGCGCNCCNCCCAAGGAAAAAAGCACCNNCAGAAAAANACACAAGGCCCCAAACCAC
AAAAAAAAGAAAAAGGAANAAAAANAAAGGACCCNCGGCCGCNCCAAGAACCANGGGG
AAAACCCCCCGGGGCCGAGGAAANACCGAANAANCAAGCCCNAAACGGAAACCCCGNCC
NACCCCCGAAAGGGGGGGGC

Sequence 5111

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGTTTGGGAGCCTGAGC
TGGA ACTGAAGCTGGGGCTGCAGCCTGGGCCTTGTTTGATCCTTGGCCTTGGCCTTGGC
CTTGGCCTTGGCCTTTGGCCGGCACAGCCTGAGCCCCTTGGCAATACGGGCACGAGCACC
GCTTTNCAAAGCTTGGGGGTGGGCAAATGTAAGGCAAGTTCGATCCGAGCTTGCGGCTGA
CACCCTTTGGGATCTTTGGGCTTAACCTCCTTGGGCTTTACAGAGGGCNCCTTGATAGCCT
CGGCACCGTGCACTCATGGCCTTGGCATTTGTTGGGCNCTGCCATCTTTCTTTAGGGNCC
TTTTTGGTTGTGGCTTCTTGGCCAAAGCGCATTTGTTTCCTAAAGGAACTTTGGGGGGTC

Table 1

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CACCCCCTTAA

Sequence 5112

CCGCGGTGGCGGCCGAGGTACTGAAAGAGCCCAACACAATTACCCTGTAAACTCTCTGTT
AGGGCAACCACCACCACCTGTCTTCCAGGACACATTTTATAGATACTCTGACAGGCCACTG
CATCTNANATTCAGGGGAGAAAATAAGTTGTCACCTCCCCTTTCAAAGNTTCCAGAAGTA
AACAAAATGGTGCCATCATTCAAGGATAACGTGCTTGATCACCTCCTCCCAAAAAGCAA
GAGCTTGTTTATGGTTGAGGAANTCGGCCGGATTGTCTGAATGACACATATTACAGAGCC
CCCACGGGATTTCTTGCACCACTCTTGGGTTCTGNGCTTGGTGGGAACATTTGCNCAATA
CAGTTCTTTAATGGAGGCACNCTGNTGTTGTAAATANCATGCCTTGGTCT

Sequence 5113

GGGCANGTACATGTTGTGGGTGCCGCTCCGGGANTTATAGCGCANCCAAATCCCGAAGTT
CTTCACCCGCAGGGGGGACTTCTCAAACACCTGCCACAGTACGACAATCTCCCCTGAAG
ACTTCTTCATCTTCTTTAACTGANATTCNAAANGTTCNGCGGGGAGTGAACCTTGAGGGCC
ACCCTGGGAGGAAGCCCNACTAGGCGAATTCACTTACTGACCGGCCTGGGCTGCTCTGAG
ACATGGAAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCTGGAAACCTTGCAAAGA
TGAGGTGGACTGGGAGTTAAGAAATATTTATTGACCCCCAAGAATGTTGTAAGCCGGNAT
CCTGNCCCGGGGGGGGAAAAACTT

Sequence 5114

GGAGCTCCACCGCGGNGGCGGCCGAGGTACAAACCTCCAGCTCACTCANATAAAGGAACA
TGAACGACCTATNCACAGAAATGCCTTTGTTTGGCCAGCCACGGTGGATCATGCCTGTAA
TTCCAACAATGTCGGAGGCAGCTGTGGGCGGATCATCTGAGGTCGGGAAGTTTGAGAACC
AGCATTGACCAATATGGACAAACCCTGTCTTTACTAAGAAATACAAANCTAGCCAGGCAT
GGNGCTGCATGCCTATAATNCCAGCTACTTTGGGAGGCTGAGGCAGGAGAATNGCTAGAA
CCCAGNGAGGTTGGAAGGNTGCTGTGCAGCCCGAGATNCGCACCATTGCACCTCCAGGNC
TGGGCAACNAAGGA

Sequence 5115

TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGAGAAGT
TTCCGGGACTGTCCCNACGACAGTCCGGTTTGTAGATTCCCTGATCTGCAATTCTTCCCG
TTCCTTCATGGATTTGAAGGCTCTCCTTTCTTCTTGAATGACTTTGCATCCCTCTCGTT
TTGCTTGAANANGTTGGGGACAAATGTTNGGATTACCTGGGTGGGAACCANAGCCCACCA
CCATACTTGTAATAACACTCTTCTGACCAATGACCTGACTGAGGNAAGTGATGGAGGNA
GGTGCTGCAAAAGTAAGGCAGACCTCATTCTTCTTCTTACCATTCCGCCTNATCTTCCG

Sequence 5116

AGGTACTCCATCGGGATCTTTTTTACCTACGCACTCCAGTTCTACGTCCCGGCTGAGATC
ATCATCCCCTTCTTTGTGTCCCGAGCGCCCGAGCACTGTGAGTTAGTGGTGGACCTGTTT
GTGCGCACAGTGCTGGTCTGCCTGACATGCATCTTGGCCATCCTCATCCCCCGCCTGGAC
CTGGTCATCTCCCTGGTGGGCTCCGTGAGCAGCAGCGCCCTGGCCCTCATCATCCACCG
CTCCTGGAGGTCACCACCTTCTACTCAGAGGGCATGGGCCCCCTCACCATCTTTAAGGAC
GCCCTGATCAGCATCCTGGGCCTTCGNTGGGGCTTTGGTGGTTGGGGACCTAATTGAAGG

Sequence 5117

AGGTACTTTTTTTTTTTTTTTTTTTTTTGGCTTNCCATNNTNNTTAGCACAAAGTATAAAC
TCTTTCACAAATACAAAATTAACCAGGCATGGNGGTGCATGCCTGTAATCCCAACTACC
CGGGAGGCCGAGACGAGAATAGTTTGAACCTTNGGGAACGGTNGGAGGCTTGCTAGTGGA
GCCAAGATCGTGGCCACATATACTCCAGTACTGGGCAACAGAGCCGGAGACTCCATCTTA
AAATACAAAACAANAACANGAAAACTTCTTNCAGGGCTTTTCCTGCATGG

Sequence 5118

CGGCGAATTGTTTCTCNNAANGGCNGCGGCCGCCCGGGCANNGTACTTATCCGTAACCT
NTTNTNCCCCTGCGNTTTTGTAAACATCCCTCCAGGCAAACAGCAGCNGAAAGGCTGTCA
ACTGCTGNGNGTTAAGGNGCTTCTTCTGCTTCTATAGAGTTCAAGGTAGGACTCATCNG
CGAAAGAAAGGGTTTNGANGAAATTNCCTTGGAGGCANGAATGTCCNCTGNTCCGATGNC
ACACCACCTGCAGCTGCACGGGCTGCCCGNTGCCGCGCTCCACATATCNAGCCTCAATT
TTNGGGCNTAGNATATAATAAGCAGNGTAAATGGGGGTNGNGCATNCCGGGGCCGTAAGC
CNGAGCATTNTCANTCCGGGCCAGAGGGCCGTANCTCTTCNCAAATCAACACCAANCTNG
AANATTGCCTTGGGT

Sequence 5119

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGACCTATGAGCAGAGGAAAATCGTG
AGTTCACCTGCCACACAGCCTTCTTCGTCAGTATCGTGGTGGTGCAGTGGGCGGACTTGG

Table 1

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TCATCTGTAAGACCAGGAGGAATTCGGTCTTCCAGCAGGGGATNAAAGAACAAGATCTTG
GATATTTTGGCCTCTTTGAAGAGACAGCCCTGGCTGCTTTCCTTTCCTACTGCCCTGGAA
TGGGTGTTGCTCTTAGGATGTATCCCCCTCAAACCTACCCTGGTGGTTCTGTGCCCTTCCC
CCTACTCTCTTCTCATCTTCGTATATTGAACNAAANTCNGGAAAACCTTCATTCATCANG
GGCGACCGCCCTGGGCCGGCTGGGGTTGGGAANAAANGGA

Sequence 5120

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCACGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTGNNGCTTATTCAGTCNCTTTATTAATAAAAGAGATCAATTA
AGCTTTCCTNTCCCCACCCACCCGGAGGTGCCGGGCTTTGAATNCTCGGGAGGAAAAAA
NGGCCAGGGNTGNAAGCTTCCTNCCCCAAGTTTCCAGGAGCACCTTGCCACCAAGCCTTG
AACACCT

Sequence 5121

TCCGGCGAATTGGNNCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACNCGGGGAGCGTCA
TAAACTTTGAGTGCTTTAAAACCGCAGGTAACGATGGGAAAGGAACTCCTGTATTCACAG
GGGAGGTTGACTGCACCTACTTCTTCACATGGGACACGGAATACGCCTGTGTTAAGGANA
AAGGAANNACCTCNTNTTGCGGGTGGCCACCCGACGGGAAGAAGCGCTATGACCTGTCCG
CGCTGGTCCGCCATGCAGNAACCAGAGCAGAATTGGGAAGCTGTGGGATTGGCAGTCAGC
ACNGGAAACAGAGAAANGAAGCATTTTTTTCATTTAATTATTTTGTTCACCACNAAGNTG
CNTGCATGGGAAAGGGCANAGGGCACCGAGGGGTGTTTCCCGAGGGACCGCCGGCAATT
NGTGTTGGCAAGATGGGNATTAAAAAAAT

Sequence 5122

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAAAAGTCCCA
GTCCTTCCGCAGTTCTAGGTTTACAGTCAGGCTCAACCTTACTTGCCCCGCTCCTGCATG
AAAACAAGTGCGTTTTTATACAGCCTCTGCCACCCAGTGGCATAAGTTTAAGGCTCTATATT
ATATTTTNAAAATNAANGGTTTTTTTTTTCCTATCATTACCACATCAATTTGGAACCTGCTG
GTGACTCTTCTACCACANGAGGGTAAATAAAAAGACCAGTTTTTAAAGTAAGAGGATTTC
AGCTCATCTTATTAAANAGTATAATAAGTTTTTCGGCCCAGTACGTCCATTAAACATTCTGT
TTTAAATTAGTATACAGGACACCAAATGCCNAAAATATTAGGAATCATAAAATGTTAAT
TTTTGGGAGGATA

Sequence 5123

CCGGGCAGGTACTTCTCCTCCATCTCAGCATAGTGNNGGTCTTTCACTTTACGCTTGTCG
CTCTTCCCATCATCCTCGCCGGAGCCATAGTCCAGGGGTGGGGGCTCATCCATGTCATTC
TTCCGCTGGTAGTTTCGATACATAACCNAATNGGAAGATTTCCAGCTTGAAGCTCCTTG
GCCAGGAGCAGTGCCAGTAGGATAGTCTTACCCACTTGACAAAGAACTCTCGCTCTGAT
CTGCCTTGAAGAGGACGGGGGGGTGGGGACATCTTGGAATTTCCATCTGCCNTGTTGAGG
GGGCTGGCACTGCATAACAAGGTTGGGCTCCCCCACCGCCCAATGTAAGGGATCTTTCTG
CACTTCCGACCTTCAG

Sequence 5124

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGGCAACATACTGTAGGG
TTCTGTTTATATGAAATATCCAGAGTAGGCAAATCCATAGAGACAGAAGACAGACTAGAG
ATTGCCAGAGGGTGGGAGGAGGAATGAGTAAGTCTTAATGGGGATGGAGTTTCCTCTGG
GATGATTAAAAAATGTCCTGGGACTAGATAGTGGGTAATGGCTGCACAAAGTTATGAAGA
CACTTAACATCACTAATGATAAATCTGACGTTNTGCATACGTCACCACAGTAAACATAACC
CNTGCAGTGAATANGTTTTCTGAGACCCATTTATTAGGTACACCAGCAAAATTAGTAAA
GATTTAAAAAGGAAAAAATTGNATTTCTCAGNACAAGGGTGCCTGGAATAG

Sequence 5125

CCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTNCTTTTTTTTTTTCTTTTTTTTTTTT
TTTTTTTTCACATTGGGGGCNCTTTTNTTNCNGCCANGGAAAAAGAAANCTANCNTNTT
TTTAAANGGGAAAGCTTNTTGTNTGAAANCAAATATTTTCATNATCNCNTTATTTTCT
TNTCCTGGGGGNNANCTAAGTTTTTACNTTTTNTATTTNCAACACNANATTTNGANTTTN
AATGTCCCANAAATTTAAANAANANGGCNTTAAATGGNCCTATNTGTNGGCNGTCCTNC
CCTGAAAACTTTTTGGCTATATCTTTGGNTCTGNGCTACAGTCTTCGCAGAGAACTAAA
TTAGGGGACNNGGCCNNCAGTAAANAAAAATTTNGNCCCTNCCNGGCTAAAAANGGGG

Sequence 5126

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTTTTGATGTCATTTTGTGTAAGGGCGCANACTGCTGCNAACAGAGTGGTGATAGC
GCCTAAGCATAGTGTTAGAGTTTGGATTANTGGGCTATTTTCTGCTAGGGGGTGGAAANCN

Table 1

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GATTNATTAAANAAAANATTCCTGC

Sequence 5127

TCCCCGCGGTGGCGGCCGCCGGGCAGGTACCACAATAGCAGGGGGATGCCGATGGAGGG
AAGGGTCATGACCCCAAAGGCTGCCCAGTCCAGAAAATGAGGGGAGAATCGCCTGTCAA
CTCCCCGCTGAGCCAGGATTCCTCCCTGTCCAGGTGCACTGGTAGAGCCAATCACAACGGG
CCCATCCTCCTGGGCCAGGTAAGTAATTGTTGCCGAGGTGAAGTTGACCCGCGTACCTCG
GCCGCCCGGGCAGGTACGGCCAGGGCTATTGGTTGAATGAGTAGGCTGATGGTTTCGATA
ATAACTAGTATGGGGATAAGGGGTNNNNGGTGTGCCTTTGTGGTAAGAAGTGGGCTAGG

Sequence 5128

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTGGAGGTGGGGC
CCTTGGGATTAGTGTCTTAAAAAGAGACACAGCGAGCTCCCTCACTCCTTCCACCATGTG
AGGACGCAGTGAGAAAACAGCTATCTACAAACCTGGAAGCAGACCCTCACCAGACACCAA
AACTGCTGGGTGCCTTGGTCTTGAACCTCCAGTCTCCAGAACTGTGAGAAATAAATTTT
TGTTGTTTATAAGCCACCCAGTTTACGGTATTTTGTATAGCAGCCCAAATAGACCAAGA
CAATACCCAATATATACTTACTGACTGATGCTGCTTGAGCAACCAGCACAGCTTATGGTT
CCTAAGGGCCTANACAGTGCCTGGTACCTTCGGCCGCT

Sequence 5129

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGCACATTTCTGGACTAC
AAAGGCATTTCTTCTGCAATGACGAAGAATAACCATGGCCATATTGTCACTGTGGCTTC
GGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAAGCAAGTTTGCTGC
TGTTGGATTTTATAAACTTTGACAGATGAACTGGCTGCCTTACAAATAACTGGAGTCAA
AACAACATGTCTGTGTCTAATTTCTGTAACACTGGCTTCATCAAAAATCCAAGTACGAG
ACATTGCTCACCTACAGTGACCGTCGTGGGCGCGGATGTGCTGGACGAGGTGGTGAAGTGT
GCTCAGTGACACCTGCGTGGGAACGCAAGAGCTTGCANTGGTGAGAGAGCAGCGCAACCG
TCTNGTGTGACCTTCTGGGGCGTACCTGCCCGGGGCG

Sequence 5130

CAATNCCGAAGCACGTTTTCAAGCTGGCGCAGGACCACGCCAAGGAAGGCGACTTCNTGA
TGGNGCTGGGCTACCCTGGCCGCACCAACCGNACCGCCTGCCGTCGGAAGTGGGCCTTC
ACCTTCGACTGGAACATATCCGGCCTTNGTGCAAGCCTNNGGCGAGACCCTGGCCATCATC
NACCGCGAGACCAANAACGACC

Sequence 5131

GCGGNGGCGGCCGACNTCGGATGACATGTTACCATGACACAAAACGACAATGACCANGGC
NCCACNCCNNGAATCATNTACCTNTATTACAACCAGACATTTGCACTNAAATAAGGANGT
GCTGCCNTATACTTATCCGNTGCTGGANGCATCATGA

Sequence 5132

CGCCGCGGCGGCGGCCGANGTACATATAATTTGCCTGGCCGGGCACGGNNGGCTCACGCTT
GTAATCCCAGCACTTTANGAGGCCGAGGNGGGCGGATAACGANGTCACAAGTTCTAGACC
ANCGTTGCCTACCAAGTTTAGCAATTCCGGGAATGCCAACTGTCTTACAAGTCACTCTC
GTATTTGCTTAGCTATGAGAATAATTTGGGGCTAACTTCACCAAAAAAGAAAAACAGNGG
AGAACGTCACTCTAGTAACAATAAAAGCCACTGTATTTTGTCTTCATCAAATGTGGCACC
TTGTGAACCACCTTTCTTAAAATTATTTATTTTAACTTTAA

Sequence 5133

CGGCGAATTGTTTCTCCCNGCGGCGGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTT
TTTNGACNCACANTTNAANNNTNATTGCAAGGANACACACAAANGTTGATGTGNAAGGNC
CTCCCACCATCANACAAANNATNACAGGTCCCATCCTCCTATNTTCTGGAAGTNAAAGAA
GTNCAAACCNGTNTCACTNGCATTCATATNACCCAANGACANGANTGCCNCCCTGTGGGT
AAGGGGCTANTCAGCAACTTTACCTTCCTAACAACTTTTATGGTTCAAGANATAACAC
NTAAAGGGGGCAAAAAACATGATGGGAACCACTTTTCTCAATAAAAAACTNNGTNTAGGC

Sequence 5134

CCGCGGTGGCGGCCGAGGTACGCGGGGGCAAAGCGGTTTCAGCTGTCTGCTCCCTAGCAGC
CGGCCTTCGGGTCGGGCGTCTCCGCCGGCTACTGCCGCTTCAGTTCTCCCGGTGTGGCCA
CGAGTCGGTAGCCATCCTAATGGATATGGGTTGGTTCCTGTTTTCTATTTGGAACCTTAA
AAAAAATTAAAGCAGGTTGCACTGCTGTGATCCATCCTCATCTCCTAAAGATGCATCCTG
ACTTATCTCCACACTTGACACTGAAGAATGCAACCGTCTTGATTAAGTTGCTTAAGGAA
TGTCACAAAAAATCACAACATTCTGAAATTTTTTTGGTTATTGTAATGATGTTGATCGGG
GAGT

Sequence 5135

Table 1

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TCTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTCTCTTTCATATATTNAATGTAAGGTAGTTGGCAATGAC
TTTTTTGAANACTGTANACCATTATTTTGTAGTATTTCTNTCAAAGNGAATTGGTCTGTT
CTCATGATGAGGAGTCCATCAATNTTTTGGCCAGGAATACTACATCAGGGATGTTGGGT
CTTCATTGCTTTCTAAACAGCTTTGTTNTCAAAACTTGGCGGCTACAAGGAATTAAATG
TGAATGGGAAAGGAAGAAAG

Sequence 5136

CCGCGGTGGCGGCCGAGGTACCCCATTAACGTGAATGAATCTGAGCTTGGTTTCCTTTA
TTGCTTCCTCTGCAATATGATTGCTGAAACACATTTTAAAAATTCAGAAGCTTGTCACTC
CTGTTAATGGGAGGATCAGTCACACATGTGTAGTACTCTGCTATGGTGCTGGCTTCCTTT
AAACTCAGGATAGATGCCAGGTGGGCTCCGTTTCCGTAAGACTGACACTCGAGCTCGGCA
TCAGACCAGTTCCTCAGCTTCCTGAAGTAACCATAGCAATTGGACTTGTGGTAAAACCAT
CCAGGAGCACAGCTGGGTCTCATGATGATATCACCCAGGACTCCTGTTTTGGCCAGGCAG
CTCAGCAATAGGAGCAGCCGCATGCTTCTGGAAGCCATCTTCCTCCTACCCTGAGGATGT
AGCTAG

Sequence 5137

TAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
GGAAGTAGAATACAGTTATCAAAACGTTAATTTCTAAGCATTAGCATTATGCAAGAAAAG
AGCTGATAAATGGCAAGGAAGTAATTCATCCATGCATTTATTTCATGCAATGACCTTTCAA
CAATTTTCTTTTTTTAATTCTACTCTGGTGCAAGGCCTCACTGATAACTTGGGGGAAGAT
GGCTGNCAAAAAAAAAAAAAAGAAGGAAAGGGGAAAGGGCAAGCGGAAGAGGAAGA
GGAAGGGGAAGAGGAAGGGGAAGGAAAGAAAAAAGAAGGAGGGAGGAAGGGGA

Sequence 5138

GGCCTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGT
ACGCGGGGGGCATCATGGTTTTTGAAGGCTTTAGTTCTGCTTTCTGCCTCTCCTCCACAG
CCCCAACCTCCCACCCCTGATACATGAACCAATGATTATTTCTTGTTCAAGGGAAGAAAA
ACAATTAA

Sequence 5139

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGGGGGAATGGAATGGAATGG
AATGCAATGGAATGGAAGCTTCCGGAATGGAATGGAATGGAGTGGAAATGGAATGGAATGG
AATGGAATAAACCCNNTTGCAATGGACTGGAGTGGAAATGGAATGGAATGGAATGGAATGG
AATGGAATGGAATCAACTCGATTGCAGTCGAATGGAATGGAATGGAATCAACCCGACTGC
AGGGCAATGGAATGGAATGGAATGCAATGGAATGGATTCAACTTGAATGGAATGGAAAGA
ATGGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATCAACTCNATTGCAGTCNA
NATGGAATGGAATGGAATTAACCCNAATTGAATGGAATGGGAATGGAAATGGAACGGAAC
CGGAACCGGAACCGGAATGGAATTGGGAATGGAAATGG

Sequence 5140

ATTGGAGCNTCCACCGCGGTGGCGGCCNGANGTACNCTGGGGTAGTAAACTTGGAACCTT
GGAAATGACCAGGCCAAGACTCAAGCCTCCCCAGTTCTACATGACCTTTGTCCTTAGGTG
TTGAGGTCCAGGGAATGCTANGAAAAAGTAAAATCAGCAGNACACATGGTTGTAGACNCA
ATAAGTGTTTTTCNTTAAATGNGTGATAAANTTNTNTTGNTCNCTTCATCTTGANNATN
CCTTGNGTGNGAAGTTACCNTGGACNNCATTGCTCATGNGNAGNACANTTATTNCAACTT
TCAAATTTTTTCNTTNTTGNANCGGACTACCATTAATAAGNNAATTGGGGGGTTGGTNCCT
TGATCGATATNAATCTTTGATGGGNGNATTACCANGNAANCANNGNAAAATGNAANGGGG
GTTGTGAGAAATNCTCTACTAACTTGGTTGAAGGAAGNTTGNNNAGNAAGNTTGTNACNA
NTTGATGGCNTTGNGTAAACAACCNTGGTTCCCAATTGAAAAGCCNACNTTGAAANNCAA
GAAAANGNCTTGGGAAGGNGGCCATCCAAANCCTGTNCAACNCTATNTAACNAACTTACT
ACCANGCNAAAAGNGGAANTGGGGAATNGNCTTTGNTAAATAAAACCAATTAAACCCCC
CACCT

Sequence 5141

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTACGTAGGGACGGGGTTTACCATGTTGGCCAGGCTGGTCTTGAATCCTGACCT
CAAGTGGTCTGCCACCTCGGCCTCCCAAAGCACTGGGATTACAGGCATGAGCCACCNTGC
CCGGCGCATCNTNTNATTTTATATTCTTACTTTTCANGTTTCTTATTCCATTCAGGCCTAA
GCTGGAAACACCACTTGTCTTGATAAAACACTGGCCACACCAACGACATGGTNGGCCAGG
GGGTGATAGCAATNTTCCAGTAAATCAGCTTTTCAGTCTAAACATACCAGTCATCCTACT

Table 1

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TGAAAGAAATGTGTCCCTGGGGACAACCTGTGAGCCTTAGCCTTCTGTAGGGAGAAGCNC
TCTTGATGGGAGGAAAAT

Sequence 5142

CCGGGCAGGTACACCATCCCTTCCATTGGACTGGCTTTGTTGGAAGAAAAGCTCAGATAT
AGCAATGAGAAATACCAAAAGTTTAAGGCAGTGGAAGAAAGCCTGCGTAAAGAGCTGGTG
GATATGCTAGGTGATGATGGTGTGTTCTTATATCCCTCACATCCCACAGTGGCACCTAAG
CATCATGTCCCTCTAACACGGCCCTTCAACTTTGCTTACACAGGTGTCTTCAGTGCCCTG
GGTTTGCCTGTGACCCAATGCCCACTGGGACTGAATGCCAAAGGACTCCCTTTAGGCATC
CAGGTTGTGGCTGGACCCTTTAATGATCATCTGACCCTGGCTGTGGCCCAGTACCTN

Sequence 5143

CCGGGCAGGTACCACTGGCATCGTGATGGACTCCGGTGACTGGGTCACCCACACTGTGCC
CATCTACGAGGGGTATGCCCTCCCCCATGCCATCCTGCGTCTGGACCTGGCTGGCCGGGA
CCTGACTGACTACCTNATTGAAGATCCTTAANCGAAGCGCCGGATTACAAGCTTTCAANC
AANNCACCTGGNCNCGCTTCTNATAACTTAGTTNNGAATCCCCCCCCGGGGCCTTGCAAGGG
AAATTCNGATAATTCANAGTCTTTATTTCGAATACTCGTACGAACTCTTCGGAGNGGNGGG
GGCNCNCGGTTANCCCCAGTCTTTTTTGNNTTCNCCTTTTTAGTGGAAGGGGNTTAAATTT
TGNNGCNGCNTTGGACGTTAAATTCAATGGGTTTCAATTAAGGCATTGGTTNTNACTTGGTT
GATGGAAAAAATTTGATATAATTCCCCGGCCTTNCAACAAAATTTTCNCACCNACCAAAA
CCAATAANCTGAAGTCNCCGGGGGAAGCCAATTAAGGTTGGTAAAAAAGNCCTCTN
GGGGGGGGTTGGCCCNNTTAAATTNGAAGG

Sequence 5144

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAAGAAGAGATGCTGTGGTTGAG
ATTTGTTTTCTCTCTCCTGGGTTTTAGATCTTAATTCTCGTTCCTTGTTTACACCACTG
GTATGCTTTATCCTGGTGTTTTCCAAATGCTCTGATTTGTCAGAGTTGTTGCCTGTGAAT
NGGAGTGATNGGAGCANCTTGGGATTAGCCTTTTGCCTGTCTTGGAAAGGAACCATTTT
GGGTTTATTTTTCTGTTGCGTCTAGTGCTTTGACCTTCTTGGCATGTTTACTTCTTTGTA
GTGGGCCTCGGCCTGGCTATCTGAGTTAAAGCGAAGCTGACAGACATTACAAGAAATAAC
TTGTTTCTTCTTTGGGGGAATGGATACTCCAAATGTATTGGTTAATAACCGCTTTTTGCA
CAGGATCCATTGTGTTAAATTTTGGAAAGGAGCCCA

Sequence 5145

NCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGGGCTGGGGAGAGGATGCANAGCTGCAGT
TGGATGAAGATGGGTTTGTGGAGGCTACAGAAGGTTTGGGGAATGATGCTCTTGGAAGG
GACAGGAAGAAGGAGGTGGCTGGGATGTAGAAGAANNATCTGGGAGCTCCCTCCTTGAGC
CTGGGATTATATTTCCCTNNGGGCAACNTGGGTGGTGGCTTGAAGANTGGTTTTCTTTTG
TGCCNCCCAACCAAGGGNAACNAAAGTCNCAACTTCAGAATCTGGGTGTAAANTAANCT
TCTTCANGCTTTCCAGTTTGGATCCACCATCCCTGGTCAGGCNTCTTTTCTNAAAACAGT
CACATGGCCGGCNTCCTTTCAATGTACCCAAAGTTNNGNGGGGTAAATCCCCAAGNTTTTG
GGCCCCCTTACAAATGCCAAACCTGGTTTCCTTACCAGGAACATTAACGGCCCNCGGAAG
GGCCCGCAACNAAACNCTTATTCAAGGGNCTTTCTTG

Sequence 5146

CCGGGCAGGGTACGCGGGTATGCTTGACTGGTGTCTTTTGTGTTGTTTGTGTTTTCTT
TCAATTGGAATTCTGTATTTAAGATGTTATGTCAGCTGACACATGGGACACTCCTGAAGA
GGTACTGGCCCCCACCCTGTTTGGCGGTGAGTTTCCGNACCCACCCGGCCTCAGGAAG
TGTCCTCTTGCTTTCGACTCTTGTTCCGCTTGCTTTGTAAATACTTTGGTCCCAAGCTG
AGACAATTGCTGTGTAAACGTGAANAGTCAATCCCAAAGGGTGTATTGTCAGAAGAA
CTTGCCGTGTGCCTTCACCGAANGCAGTCAAGTCTGCANTTGGATTNTCTCACTGGTGA
ATGACAAGAAACCAGGGGATNAATTTTGCCTGCGGGAGGATTATTTANCNGGGANTTG
GTCTANTT

Sequence 5147

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTAAAGTATAGACTAATTAACCTAAGC
TACCTTTAACAACGTAGAATTTAGATGGGTTCATATATGTGAGAAAAACCTGAATATAGG
ACAGGGGTCCCNCTTTTTTCCCCACCTCTGTCGCCCAGGCTAGAGTATANGTGGTGTGAT
CTTGGCCCACTGCAACCTCTGCTTCCTAGGTTCAGTGATTCTCCTGCCTCAGCCTCCCA
AGTAGCTGGGATTGTAAGAGTATGCCACCACGCCAGCTACTTTTTGTATTTTAGTAAG
AGACAGGGTTTCATCATTTGTTGGCCAAGGATGGTCTCTTAACCTCCTGCCCTCAAGTGATC
CACCAGAGAGGAGATCCTCGGCCTNCCCAAGTGCTGGGATTATNGGCATGAGCCACNNGC
CCAGCCTACTTT

Table 1

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Sequence 5148

AGGTACTGCAGCCACGTTGGCCTTCTTGGTATTCTTTGAATACAAGGGAGCTTCTACTTC
AAGGCATTACATTGGCTGTTGCCTTAGCTTAGAACGCTCTTCTNCTNNATAGCCGCAGA
GCCCCGCTCTCTCACCTGACTCATGTNTCTGCTNAAATGTTAAATGATCAAAGAGGCAAGT
TCCCCNGCCTCCCCCTTAAAATTACAACCTGTTCACTCTCCAATCCTTTCCTCACNGATT
TTTCTCAAAAGNCACTTACTCGCTAACCCAACATATTATNCTAAAATNTTTTTTTGTCT
CTTTTTTATTTAGGGAAATGGTAAAGATTTTCATGTTAAAGCCAGGGGAAACCTGGTAAT
TATCAACTGGCTTATACCCCINCAGNCATTTTTTAAAAACAAATGGGCNTGTTACCCCTCNC
GGNGGGTGGGCCGGCCTGGGGGGTTTTTGGGCTTCCATGGACCANAGGATCTATTGGGG

Sequence 5149

AGGTACTAATACTCCTGTTAAATTC AACAGCTTTATTGTGAAAGAATCCAGAGATCTCA
CACTGAAAAATACTAACACAGCTCATATATAAATTACTTATCTATAAGAACAATTATAG
AAGGAATCTAAATGGGGCAATTTTTTAACANACCCAGGCAATNATATCACAATATACCTNG
AATATAAGGTAAGTCCAAGCCATGAGTATAAGATTAAGNGTCAGTTACTTTTATTTNTGA
ACAAGGCAAGTGGCATAAGGCATACTCAAGTGTGNTGCCCTTAAGNGTGGGGAGCCTC
NTCCCCCTTACCCTCCCCACCCCAAAGGGCATCATTTTNTGNGGAGNAAAAANAAGG
TGGNTCTTCTTATCCTGGCTAAGCNTGNTGTTTTATACTNAGGGATTTGCCACCTTT

Sequence 5150

AGGTACTCAATACATCTTTCAATAAAAATGGGGATCGGCTTCTCTGGAGTCACGACAGTT
GTTAAGGGCACCCCAAATAGTTACTCTCCAGGTTGCCTTTGTGATGGATGGCCGGGGT
TTGGGCTTTGGTTTCTTAGTGTTCCTCCTTAGGCTGCGAAGAATATTCTCTCCCGCGGG
TCTTCGTCTGTTTTCGTATGGAATGACAGCATTGTCCCCTTTATAACCCCGGGATGCCTGA
TCCTCCTCTTTCTTCCGGATGGGCCCCAGCTCATCATCACTCCCCACGCTGAAGCTGGTC
CGGTAAGTACAAACCGCCCCAGCCGGGTGCATCTCGTCTGTACCTGCCCG

Sequence 5151

CGCAGAGCCGCCAGGAGCAGCCGCTGGAGTGCAGAAAACGCTCTCAATTTTCGGGTCTCA
AAGACCCACAAGCCACACCACGCAGGCCGGGACAGGAAAGAGTCCCCCGCGTACCT

Sequence 5152

AGGTACATGGNCGAAAGTGCCTTATACAGGTTGAATAAAAATCACTGCCATTTTCAGAAT
ATTGATGGCACCTGAGGACTTGAAATTGNGTCCAGAACTGGTGGGTCTTGGTCTCACTC
ACTTCAAGA

Sequence 5153

CCGGGCAGGTACTTTACAATTCATTCGTGAAGCTTTAGCCAAAGACCTTGAAAACCTANCA
GTTGTGCTCTTCCANTTTTCATATGTGAATTCAGTGCAAGAACTTGGTGTTCTGTTTCT
TCTTTTAAGCTCTATGCAATCNTTGCAAACATANTGATCATAGCTGTTCAACATTGGTC
T

Sequence 5154

CGCCCGGGCAGGTACAGGGAAGGCCTTTTCGGGCAGGGCACATGGTTCACTGCCCCATGAC
GTGATACCTTGAAGCACACCATTACAGACAAGTGGGCCCCCATTAATCACCCGAGCAGGT
GCTTTTGGCCCCCTGTCCAAGCNTCCAGCACACAGCATGGAACCTTGGTCAACCTTTCTGN
AGGGTNGAACTTTGCGCACACACGTCAATNTGGGAAATAAACATGGAGGTCCACACCACNT
GGAAGTTNTCATTTNTGGGGGTCAAAGTAACTCCTCTGNGTTCAATGNCTAGCTCCCCAGT
CCTTGGAGAGTCGTTANCANNATGGGTCTCCAGTGNCTTGGCTTCTTNGGTNTNGGATC
AAGGNTTCCAATGGACNCTTCANCAGGCCATTCCCCTTGNANGCTCNGGGNAAGGCCTTC
TNGTACAGNGCCGGGAAGCCAAGCATNGANGGTCCGTTGGGCTTGGGGAGATNAATCAAC
CCTGGGCCCNTGGAGGGA

Sequence 5155

CCGGGCAGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACCCGGTATGGT
GGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTCNAAATGCACCATGA
AGCTTTGAGTGAAGCTCTTCTTGGGGACAATGGTGGGGCTTCAATGTCAAGAAATGTGTT
CTTGTCAAGGATGTTCCGTCGTGGCAACCGTTGCTGGTGACAGCAATAAATGACCCACCC
AATNGGAAGCCAGNCTGGCCTTCACTGCCTCAGGTGNATTATNCCTGAACCATCCAGGGC
CAAATAAAGNCGCCGGTCTTATGCCCCGTATNTGGATTTGCCACACCCGGGCTTCACAT
TGCATGCAAGTTTGGCTGGAGCCTTGAAAGGGAAAAAGGATTGGATCCGCCGTTTCTTGG
GTAAAAAAGCTNGGANAGGATGGGCCCCCTTAAATTTCTTGGAAAGTNCTGGTGGATGC
CTGCCATTTNGTTG

Sequence 5156

Table 1

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CCGGGCNGGTACTGTTATTATCCCTATTTGCCAATGAGAGAAAGAAGGCAAGANAGCTTA
AGGAAGTTTTCTAATTGCCCAGCTAGAAGGCAGGACACANTTGCCAGCAGGGGGCCGTT
TGCCCCCATGTGT

Sequence 5157

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAACTTTTCACTTCTTTTATTGT
TAAAATANTNACATCCATATACATGAAAAGATTGACCATNNTGCATTGATTGTTGG
CTCTTGCCATCTCGTGGCCTCCAGNATCCTGGCTNAAAGGTTTTTACCAAGTAGNTGCTG
GGAAGCCACTGAGGGGTNTTCCCTTTCCAAAGTNTGGAGTCANAGGGCATGGCCTTTTAA
TTTTGAAGTTTGAACCTGNGTTGGAGGCAAGGTAGTTCCTCACTGGNTCTCTTTACTAAG
GGAGGTTTTTTCTTTTTCATAAAAAATNCTTGGCTTTTTTATNTTTGGANATTCTTCTCT
NGNAGTTTTTTNATTCTTTTAGTATTTTCNCTCCATTAGCTAAGGTTGNGAGGTCTTTTT
CTTGTTTCTTTCTAAATCCAAAGACTTTCCC

Sequence 5158

AGGTACGCGGGTTTTCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGG
TCGAGCTGTGCAGTTTTAGCGGGTACGCGGGTGAAGATCCTCACCGAGCGCGGCTACAGC
TTCACCACCA

Sequence 5159

AGGTACGTTTGGGAGCCTGAGCTGGAAGTGAAGCTGGGGCTGCAGCCTGGGCCTTGGTTT
GATCCTTGGNCTTGGCCTTGGCCTTGGCCTTTGGCCGGCACANNCTGAGCCCCTTGGCAA
TACGGGCACGAGCACGCTTCCCAAGCTTGGGGTGGGCAATGTAGGCAAAGTCCGATCGAG
CTTGCGGCTGACACCCTTTGGGATCTTGGGCTTTAACTCTCCTTGGGNCTTTACNGAGGN
GCNCTTGNATAGCNCTTCGGCACGTGCCACTCATGGCTCTTGGCATNTGTTGGCNCTGCA
TTCTTTCTTTTAGGGCCCCCTTTTTGTTTAGTGCCTTCTTTGGCAAAGCCGNCATGTTCC
TCAGGGAACCTTGGNGGTCCACNCCCCCTTAAAGGAGATTCGTATCTTTTGTGGATNNGGG
NGTTTTTCTTNGATTACCATTTTTCTGTGCCCAATTTTTTCGGGGACTGGGNTTGTGGTG
TGGATGGTTGGTTTCT

Sequence 5160

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGNATTTTANTATT
TTAGCTCTANGNNTGTAATAGAGGGGGNTCANNGGAATTTTACCTAAATACTGGCATAAA
TCTGAGTGCTCGTCTTTCCCCAAATAATGATGTTTCTAAATGGGAAAGTTCATTATAAAA
CATTCTTCTCTTCTTCATCTCTTANGGNGATAGCTAGCAACATTACCCCTTCCTTATCT
ACNAAAAAATTATTTCTTAATTATAANAAAAATTCATTCATTAAAGGTGTTATNCATTTTC
CTTTTTTTTTCTCCAAGAGGNGGNAATTNAAAAAATACNGAATTTTGCNNGACNTNTA
AAACACGTAANTAGGGAGNAAAAGGGAGTTTATTNTTNNNAAANAGTGGGANATCCCGCG
GTACCTNNGGGATNTAACAAGGGCCGTGGAGNCCACTTNTGGCCNCANCCCCAAAAAATGG
NTTT

Sequence 5161

TGGCGGCTCGAGGTACTTTCCTTGACAGGCAAGACTGTTGGCCAGGGCTCGCTTGACATA
CTCCTCCTGCGCAGCCTTNANGTTCTCCTTCTTCCCGCCCCAGGCCTTCANGGCAGAGGC
CTGCAGGGCTCGGCCGANGTNCGCGGGATCCTTGAGGAGCGGNATGCCTCTTGCCAGCTN
CTTCACTGAGCCACCAGCCTCCTTCAGCTCCACGAGTCAGAGTAAATANGCCTTNAATTN
AAAGNAATTGTGGGACCGATTATTATTGNAAACNCACCCGGGTCCGGGGTAGAAGCCAGT
ACCCTGTAGGAAGTAATCCGTTTGNCTATTNAATGNAGNAAGGNATTACCCTTGGNCNTG
TTNTGNAAAANAACAACATTGTTTTGCNAAAAAACCTNTATTTTCCGAAAATTATAAAGG
AAGGGTTNAGGAAATTTTTTGGGGNAAGGGACNCCTNGCCANCCCCACGGAGGTTTNCT
TAAANNCCTTGGGGATTGAATNTAACCTTTNCAAT

Sequence 5162

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTGGTCTTGGCGCTCCTGCTTGTGTCCGC
CGCTCTATCCAGTGTTGTATCACGGACTGATTCACCGAGCCCAACCGTACTTTTAGTAGA
GACAGGGTTTACCATGTTGGTCAGGCTGGTCTTGAACACCTGATCTCAGGTGGTCCACC
CACCTCGGCCTTCCCAAAGTGGCTGGGGATCACAGGCCGTGAGCCACCATGCCTGGCCT
ATTTATCATTTTTTCACTTGTCTGTCAAGGNCCTTCAAAGGCTATGCTTCTGATTTGCC
CACACACTTTACTTCTGAGTATTTTCATATTTTACGGGTAGGTA

Sequence 5163

AGGTACCGGCTCAGTTCCCGAGGCCCAGAGCCCCGCGTCCCGGCTCCTTCAGCCTCGCTC
GCCACAACCAACCATNCTCCAACCTGCACAGAGGACCCGGGAGTCCGGATGGCGGCGGAT
ACCGGCAGTGCGGGAAACCACTTACCTGCTGCTCTCCANNAGACGGC

Table 1

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Sequence 5164

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTCTGATGTTGAGAGTCAGTTTTATTGCCATCTCTGGGAGGGGCTNAAATCCGCC
CAATCTCCTTNAGCTNGGCCACCAGGTCCTCAGTGGTCTCCACCTTGACGC

Sequence 5165

TGGCACGCCCCGGGCAGGTACGCGGGGAAAAAGGAGAGACATGGAAAGGGAGACAGCCAGG
TGGCACCTGCAGCGGCTGCCCTCTGGGGCCACTTGGTAGTGNCCCCAGCCTACCTCTCCA
CAAGGGGATTTTTGCTGATGGGTTCTTANANCCCTTAACCANNACCTGGATTGGGTGGGCC
CATAAAAATNAATAAGGNGAACCCAAGNCCCCCTTTTCANTGGGGNTGGGGATGAACCTTT
GGNANAAGNTCCACCATTGTGTTNAATGGGGGGGATACCAANNAAAAAACCAATNTTGTTA
TTGTTTACNTTTAATTGGGGGGNGGTTGGANGGAAAATTANTTNAAGNANCCACGTTGGC
CCCCCTTTTGGGTTGGCCNNNAAGGGGGNAAATGNCCCAAANTTTTNNATATAANANG
GGAAAACCTTTTGGTCCCCCNTTGGNANGNCAACNTTTCACCTGGGGTTGGNNCCAAGGG
NTNCTTTTCTCCAACCCCTTGGGCCAACCANTTATGGGGTGGTTGGGGGGGGGGCCTTC

Sequence 5166

CCGCGGTGGCGGCCGAGGTACCTGCCCACAGCCTTGGTCCCTGGGGGCTAGACTGCTCAA
CTGTGGAGCAATTCATTATACTGAAAATGTGCTTGTTGTTGAAAATTTGTCTGCATGTTA
ATGCCTCACCCCCAAACCCTTTTCTCTCTCACTCTCTGCCTCCAACCTTCAGATNGACTTT
CAATAGTTTTTTCTAAGACCTTTGAACTGAATGTTCTCTTCAGCCAAAACCTTGCGACTTC
CACAGAAAAGTCTGACCACTGAGAAGAAGGAGAGCAGAGATTTAACCTTTGTGAGGGCC
CATTTGGATCCAGGTCTGCTTTCTCATGTGTGAGTCAGGGAGGAGCTGGAGCCAGAGGAG
AAGAAAATGATAGCTTGGCTGTTCTCCTGCTTAGGACACTGACTGAATAGTTAAACTCTC
ACTGCC

Sequence 5167

CTCACTATAGGGGCGAATTGGAGCTNCACCCGCGGTGGCGGCCGCCCGGNCNGGTNCGCG
GGGAGGCATTGAGGCANCCANCGCNGGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGG
AAACCGCAGATAAGTATTTTTTCTCTNTGAAAGATAGA

Sequence 5168

GCCGCCCCGGGCACGGTACGCGGGGTGGCGGCNACNACCCATTCTGAACGTCTGCCCTATCA
ACTTTCNATGGTAGTCGCCGNGCCTACCATGGTGACCACNGGTGACNNGGAATCATTGGT
TCNATTCGGGAGAGGGAGCCTGAGAAACGGCTTCCACATTCAANGGAAGGGCAGCANGCN
CGCAAATTACCCACTCCCCNACCCGGGG

Sequence 5169

AGGTACTCCCAGACATGGATGGTTCACCTTCCAGGGCTGTCATTGATGAAAATGCTTTGG
GATGAGTACTTTTTTTTTTTTTTTTTTTTTTTTATAATATAATCTGTTTTATTTTACAC
TTCTCTGATTATTGAAATCTAAATAGAGGTTTTTGTCTNACAAACNAAAAAGGNATAATN
AANAAGACAGCANNGGACACNATTAAATGTTGAGTGCAAATNAANGGTTGTAATGAGGCC
CCATCCTGGGGAGGCTGTACCTGCCCCG

Sequence 5170

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGACAAGGTAACCTGAGACAGTGATGAATGGCG
GCATGAAGGAAACGCTCAGCCTCACTGTAGATGCCAAGACAGAGACTGCGGTCTTCAAAA
GTGAGGAAGGGAAACTGTCTACCTCTCAAGATGCTGCTTGTAANGACGCAGANGAAGTG
TCCCGAGACTGCAGAGGCGAAGTGCGCGGCGCCCAAGGCCTCCAGCAGCAGTCCCGAGC
AGAGGACTGGCCAACCAAGCGCACCAGGTGACACTTCAGTGAATGGCCCTGTATGACGGG
TGACGTCTGCTGCTGCTGACTGAGGACTGCAGACCGCCACCACTCAGGGGCTCTGGAGGG
GTCAAGCTGGAGCCCACCAAGCTGTCACTGCTGCACTTCACTCTGCAAGGGATCAAGGAC
CAGCCAACCTT

Sequence 5171

CCGCGGTGGCGGCCGAGGTACGCGGGGAGGGGCGGGCGTGGGGACATTACCGGACAGGC
CTTGTCCGGCAATACCAAGTTTCATGCAGGCTCTTGGGAAAGCTGGTGCTGCTGCTGCCT
GATTCCTCCGACAGACCTTGGGACCGGGGCCAACACTGGCAGCTGGAGATGGCGGACAC
CGAGATCCGTGCACGAGACTAGGTTTGA

Sequence 5172

CCGGGCAGGTACTTTTTTTTTTTCTTTTTTTTTTTTTTTTGGAGACAGAAGTCTCGCTCTGT
CNCCNAGGCTGGAGGGCAGTGGCACGATCTCAGCTCACTGCAAGCTCCAACCTCCGGGTT
NACGCCATTCTCCTGCCTAANCCTTNCAAGTAGCTGGGGACCTACANNNTGCCCTGCNAC
CGTGCCCGGCTAAATNTTTTTTGTCATTTNTTANTAAGANAACAGGGGGTNTTTNAANCA

Table 1

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TTNTTTANNNCCGGGGAAGNGTTCTTTTNGAATNCTTNCTTGACCCATTATGNATACTCA
CTCCNACCCNTAAAAACACTTCCCCAAAAANGTGGTNTNNNTGNAATTTNCCAANTGNCG
TTNNNAGNCCCATCNTGTCGGCNCNCGGGGTCATAAGNANNCCCTTTTTTTTTTTTTNTA
ANATAACAAGANATTATACAANAGCCCTTTGCCCAATTGCTTTTTTN

Sequence 5173

AGGTACATTTCCCTGCCCCAGATCTGGGATCACCATTTCTTCAGCAAACCTCTGGTTCCTTT
GAGAGGGAAATGGTATTTAGAGATCACAATCTGAATGCTAGGGGTGTTGGTTACTACTTG
TTATTGCTTTTAGGCATTTCCAGGAGAGAGTGCTAGAAAATATTTTTTACTAAGGTAAAAA
AATAAATTATGAGCCAGGAGTGGTGGTGGTGAATCCCAGCACTTTGGGAGGCTGAGGCC
AGTGGATCACCTGAGGTTGGAGTTTCAAACCAGCCTGACCAACATGGAGAAACCCTGTC
TCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCACACGCCTGTAATCCCAGCTACTC
AGGAGGCTTGAGACAGGAGAATCGCTTGAACCTGGGGAGGTGGAGGTTGT

Sequence 5174

CCGCGGTGGCGGCCGCGTGGGTGAGTTGGCTGCCGGTGAGTTGGGTGCCGGTGGAGTCGT
GTTGGTCCTCAGAATCCCCGCGTAGCCGCTGCCTCCTCCTACCCCTCGCCATGTTTCTTAC
CCGGTCTGAGTACGCGGGATTGAAAAACTTTTTGAGCGTTATGGTGAAAATGGAAGATTA
TCCTTTTTTGGTTTGGAGAACTTTTAACAACTTGGGCCTTGAGAGAGAGAAAAGTAGTT
GAGATTAATCATGAGGATCTTGGCCACGATCATGTTTCTCATTAGATATTTTGGCAGTT
CAAGAGGGAAAGCATTTTCACTCACATAACCACCAGCATTTCCATAATCATTTAAATTCA
GAAA

Sequence 5175

AGGTACGCGGGAGTCTCTTTGGAACTTCTGCAAGGGGAAAAGAGCTAGGAAAGAGCTGCA
AAGCAGTGTGGGCTTTTTCCCTTTTTTGCTCCTTTTCATTACCCCTCCTCCGTTTTCACC
CTTCTCCGGACTTCGCGTAGAACCTGCGAATTTCAATAGGAGGTGGCAAANTGGGAGAA
AAGAGGTGTTAGGGTTTGGGGTTTTTTNGTTTTTGTTTTTTGTTTTTTAATTTCTTGATTT
CAACATTTTCTCCCACCCTCTCCGGCTGCAGCCAACGCCTCTTACCTGTTCTGCGGCGC
NCNNNCACCGCTGGCAGCCTGAGGGTTAAGAAAGCGGGGTGGTATTTTAGATTTTNAGCN
AAAAATTTTAAAGATAAAATCCATTTTTTTTTTTTCCCCACC

Sequence 5176

CCGGGCAGGTACNCGGGGGCGGCGACNACCCATTCTGAACGTCTGCCCTATNAACTTTTGA
TGGTANNNNNCGNGCCTACCATGGTGACCACAGGTGACGGGGAATCAGGGTTCGATTCCN
GAGAGGGAGCCTGAGAAACGGCTACCACATTCNCAAANGAAAGGCAGCNATGCCGCCGCA
AATTTACCCCACTTCCCGANTCCGGNNGGAGGGTAGTGACNGATTTATACNAAAAGNATA
ATNAAATAATATCNACNANAANTATGGTTNNCCTTTCCGGGGCCNNATTCTTATGAAACAT
AAGTTGNNANTTCCCCACCCGGGGGCGTNNNAANGGGAAAATTTCTGAATAAGTNCAAA
AGCCTTTTAATACNGGAATTANCCCGGNCCNGAACCCCTTCNTAAGAGGGGGNGGGGG

Sequence 5177

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTGATTAAGGTAGCGT
CTGCTGGCTTCCTCCTTGTGAGTTGCCCTTTTTCCCTTCCACAATTTTTGTGGGGAG
GAACTTTGAACTATTAAATATTGTGGAACCTGGGCACAGTGGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCTGAGACGGTTGGATCACTTGAGGCCGGGAGTTTCGAGACCAGCA
TGGGCAGCATGGCAGAACCCCATCTCTNCTTTTTTTTANAATTAAAAAAGGT
ACCCTCGGCCGCTCTAGAACTAAGTGGGATCCCCCGG

Sequence 5178

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCACTCTTTG
GGTCCACACTGCCTTTATGAGCTGTAACACCGCGAAGGTCCACAGCTTCACTCCTGAGCC
AGCGAGACCACGAACCCCAACAGGAAGAATCTGTGAACACATCCGAACATCAGAAGG
AACAACTCTAGACATGCCGCCTTTAAGAAGTGAACACTCACTGCGAGTGTCCGCGGCT
TCATTCTTGAAGTCAGTGAGACGAAGAACCACCAATTCCAGACACATTTTGGCGACCTA
GATGGGACAATCGCCTATCACCGAGTGGTGAGACCATCGCCTATAGCTGAGCGGCGAGAC
AATCACCTATCGCCAAGCAACAAGCAGATGAATGGTGAAACGATACAGCAGAGAAAGAGA
GAAGAGGAACATTTGAACGCCGAGAGGAGTTCANCCGAGGGTGGTTCGAGAGGTTTGGCC
ACCCAGCAGGAAGATTATTTTTTCCCGTGC

Sequence 5179

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCTGAGAAAGATCG
TGTCCTCTGTCTTGTGGGGGTGAAGTAAAAGAAGGTTGCTTGGATCTCCTGAACCGACT
TATTGTACGCCATTGCGTTCTGGAATGGCAGAAAAAGGAAATATCATTTGGCAGCCGCATC

Table 1

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TAAGAACTCTGTGCAGAGTGGAGAATCAGATAGTGATGAAGAAGAGGAATCCAAAGAGCC
CCCTATCAAGCTTCCAAAGATTATTGAGGTTGGCCTTTGTGAAGTTTTTGAATTGATCAA
AGAGACACGATTTTCTCATCCATCCCTGTGTCTCAGGAGTCTCCAAGCCCTGCTCAACGT
GCTGCA

Sequence 5180

AGGTACATGTGGGAGAAAACTTAAGTGTGATGAGTGTGGTAAGGAATTCAGTCAGGGCG
CTCATCTACAGACCCATCAGAAAGTCCACGTGATAGAGAAACCATACAAATGTAAGCAAT
GTGGGAAAGGTTTCAGTCGTAGATTAGCACTTAATGTTTCATTGCAAGGTCCACACGGCAG
AGAAACCTTATAATTGTGAGGAGTGTGGGAGGGCCTTCAGTCAGGCCTCTCATCTTCAGG
ACCATCAGAGACTCCACACTGGGGAGAAGCCATTCAAATGTGATGCATGTGGTAAGAGCT
TCAGTCGGAATTCACATCTTCAATCCCATCAAAGAGTTCATACAGGAGAGAAACCATAACA
AATGTGAGGAGTGTGGTAAGGGCTTCATTTGTAGCTCAAATCTTTACATTCATCAGAGAG
TCCACACAGGAGAAAAACCTATAAA

Sequence 5181

CCGCGGTGGCGGCCGAGGTACNCGGGGGATCCTGCTTNTCGCCAAGGCANGAAGNGAGTT
TCTCACTGCAATTCCGGGCGGTGNCACGAGTGAAAAGNTTTGTTNNTTTTTTTCGGCNGA
GATCCTNNCNGGGGCTGGNAACTCCTGCANAACTCTAGACCAGNAAGCCANNCCGNACC
CCACCCCNACNAAAGCCACCTACTCTTCTTNTGTGGGAGGCCAGTCCACATNCGTTCTNA
CCCGAGAGANATNTTCAGNTNGATCCAAANTGACTGATCAAGGGA

Sequence 5182

AGGTACGCGGGGGATCCTGCTTCTCGCCAAGGCANGAAGTGAGTNTNGCACTGCAATTCC
GGGCGGNGNCACNAGTGAAAAGNTTTGTTTTTTTTTTTCGGCGGAGATCCTNGTTGGGGC
TGGGAAACT

Sequence 5183

CTTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGTGATATTGG
CGGACTTAAGGACATCGAATTGTNTATCAGGAATAAAGNATTATGTGTGTTTTCTGCGGC
CCTGGATAATGTTGTAGCATTCAGGGTCGATTGAGTAAAAAAATGTAGAGATGGTTTCC
TGTTTGTTTTTGCTTCTAGTTNNCATTCAATTTGCTATTNATTCTCTNCTGGCTTTGCTNG
TGATGCATATATATAAAACCATTATTATTANTATTATNCTTAGTATCTAGTGGAAG
GCTTTTATTNGGTTCTGNGAATAGTCATTTTGTNTCCTAAGAACTTCCAGCAAGTTGTAT
TCATTCCATTATCTAGAAATTCCTAGGCTGCCCTTTGGCCG

Sequence 5184

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCACTCTATCCTTTTATTCCTTCC
CAGGCTATTGCAGGAAAAGTCTTGTTTCCCAAACCGCTGTGCCTTTCTCCTCTTTGCCT
TTCACCCCTGGGAGGGGGGCCAACTACACAAGTGGGCTTTATTTGGGAGAGGGGAATGG
AGGGTTGNAATAAAGAAAAGCTCAGCTTCCAGAAACACCACACTCTCNTTGGGTTTTCTN
TGACCTTAAGGNAACTCCTTCTNAGTCCTTNGGGCTGATTTCCCATTTCCCAAANAGCCC
AAGGGC

Sequence 5185

CCGGGCAGGTACGCGGGACCCCAACCTGAGCACATCCCTCGACGATGCCTTCCTGCTGCG
CTTCCTCCGAGCCCGCAAGTTTGATTACGACCGGGCCCTGCAGCTCCTCGTCAACTACCA
CAGCTGTAGAAGAAGCTGGCCCGAAGTCTTCAATAACTTGAAGCCATCAGCCTTAAAAGA
TGTCTTGTCTTCCGGGTTCTCACCGTGCTGCCCCACACTGACCCAGGGGCTGCCATGT
CGTCTGCATCCGCCCAGACAGATGGATACCAAGCAACTATCCAATTACTGAAAACATCCG
AGCCATATACTTGACCTTAGAAAACTCATTCAGTCTGAAGAAACCCAGGTGAATG

Sequence 5186

AGGTACAAATCCTCTGAAGCCTTTGCAGTTCCAGTCCCAAGATTACACTCATATACTTGC
AAATGTGCAAAATAAACTCCATACAAGTATTGTCACTGGTGCAACTACATTCACTCTAAT
TTTCTTTCTTGCTACCTCTTTAGCAAGAGCACGTGAAAATCCAATAATCCTCCTTTACT
GGCACTGTAAACGGACTGGCCAGAGTTGCCTTTTAAGCCAACAATGCTTCCTACATTAAC
AATAGACCCTCCCTGTTGTTGAATCATAGTCCTCATGGCAGCTTTACAGGTCAGCATGGA
ACCCAAGAGGTTAGTATGAAGCTGAGATACCATATCTTCAGTTTT

Sequence 5187

CNCCGCGGTGGCGGCCGAGGTACAATGCAAACAGTGCCGCTTCCAGTGCTACCCACACGG
GTGCAGCCTCACGGGAGAGTTGCGGAGAGAGGGAATGCGTTTCAGTTCAGCCAGCGGACGG
CCAGGGGTAAAGCGGCCCTAGTGGGTACATGGCCTATGATGTCTGGAGACCGCAGATCT
TCACCCTCTGGAGTCTCATTGTGAGAGTCTCATTGTGTCGTCGGTCACTGTGGCCACCTC

Table 1

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ACCCTCGTCACCACGGGCCTTTCCTGTGCCGTGCTCACTCTGACACTGAGATGCTGCCAG
GCAGTTTTTTTTTTTAAAAATCAGTGGAGTAAGTTCTAAGGGAGCCCCATGTGCTTAAGAT
AAAAACGTAGCTGGTAAAG

Sequence 5188

GGCAATTGGAGCCTCCACCCGCGGTGGCGGCCGCCGGGCAGGTACTGTAACAAAAAGCT
GGCTTTAGGCGTGGCTTGTAGAATCAATCTAACTACTAGACAAGTTACATCTCATATATG
TGTGGCTTCTTTTTCTTCTTTTGGGGGGCTACAAGGAAGGTTTGGAGAAATTATTTCCAT
CATACCTTTTTGTAGCCTTTTTCCATTTCTGGCCAGTAAGTAATCCCGTTCCTGACAAC
AGTCCCTTTGTTTTCTCAAGTGGTCTGATGAAGGACTGCAAACCACAGCTCTTGTGTTTT
TTGCACCATGGGTTTTTAAAATCCGTCCTCTGCCTCCCCACAAGGAGCTACTACCCAAGG
GGAAGGGAG

Sequence 5189

CCGGGCAGGTACTGAGTGAAGACACCAGAGTGAAGGAGAGAGGCCATGCTGTGTCCGAGA
AGCTCCTACTGGGGTGAAGGGACAGCTCCACAAAGGCTGCTCTTGCAGGGGCTCTCCTG
CAGCAAGGTGCCTGCTGACTGTCCCAGACTGTCTCCCGACACAGAGGGATGCAAAGGCA
GCCTCTTCCTGCTCAGTGGAAATAGGGAAATTATATCACCTTTCACTTCCCACTCTCACTT
CTGCCCCTGCTACCCTTAGTCTTTGGCTTTTGTGACATTTTCCCCCTCTTATCTTTTCTC
CTGACCAAGTTCTAGGTATTTTCATAGGGCAGTCTAGGTGAGGGTTGGAACC

Sequence 5190

CCGGGCAGGTACCCGATTAAACCAGAGCAAAAAACTACCTTCTGCAGGTCAGGGAGCTAA
TGACATGGCATTGGCCAAACGTTCCCGCAGTCGAACTGCTACAGAATGTGACGTTTCGTAT
GAGCAAGTCTAAGTCAGACAATCAGATCAGTGACAGAGCTGCTTTGGAGGCCAAAGTGAA
GGATCTTCTCACACTGGCAAAAACCAAAGACGTAGAAATTTTACATTTGAGAAATGAACT
GCGAGACATGCGTGCCCGAGCTGGGCATTAATGAGGATCATTCTGAGGGTGATGAAAAATC
TGAGAAGGAAACTATTATGGCTCACCAGCCCGACTGATGTGGAGTCCACTTTATTGCAGT
T

Sequence 5191

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTNGGTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTGGNCAATNGTTA
TTTAGTTTTTATTTTATAATCATAAACTTAAGTCTGCAATCCAGCTNNGCNTGGGNGGGA
ACANGGAAAACNTGGAACCCAAAGGGAAGTGCNGCGAGAGCNCAANATTNTAGGATACT
GCNAGCAAATGGGGG

Sequence 5192

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCGCCTCCCCAAAGCTT
TATCTGTCTTGACTTTTTTAAAAAGTTTGGGGGCAGATTCTGAATTGGCTAAAAGACATG
CATTTTTTAAACTAGCAACTCTTATTTCTTCTTTTAAAAATACATAGCATTAATCCCA
AATCCTATTTAAAGACCTGACAGCTTGAGAAGGTCACACTGTCATTTATAGGACCTTCTG
GTGGTTCTGCTGTTACGTTTGAAGTCTGACAATCCTTGAGAATCTTTGCATGCAGAGGAG
GTAAGAGGTATTGGAT

Sequence 5193

NCNGNCCAGGTNCGCGGGGAGACTTTTGCCACACACAAATTTGTGAAAATTAAACCGAGA
TGTGGAAGGAGAACCTCAGTGATTTTATTCCTAGTGAGGCCTCTGAGGGCCTACACACC
TGCTTGGCAGAACATACCACTGAAGTAGTATGGTGCTAGAGGAGGGCACAACATCCGCT
CCTTCCCTAGGCCTGNNGGCTCTGGTTNTCNATGCANATGATTCATTGGGATNNGGGGGN
GAGTGTNTNGTTTTTTCTGGGGGCAGGTNAGAGCTTTTGAGGGT

Sequence 5194

AGGTACGCGGGGTGGGCGCTAAGATGGCGGCGGCGTGAGTTGCATGTTGTGTGAGGATCC
CGGGGCCCGCGCTCGCTCGGGCCCCGCCATGGCCGTCACCATCACGCTCAAACGCTGC
AGCAGCAGACCTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGA
AGATAGAAGCTGAGAAGGGTCGTGATGCCTTCCCCGTGGCTGGACAGAACTCATCTATG
CCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTATCGCATCGATGAGAAGAAGT
TTGTGGTCGTCATGGTGACCAAAAACCAAAGCCGGCCAGGGTACCTGCCCCGGGCGGCC

Sequence 5195

CCGCGGTGGCGGCCGAGGTACCAGGAGCTGCGGTGCAGGGACGGCAGGCTGCCGTTTACC
TGGTCCAGGGCCTCTGACTGCTCCACTTGATCAGGGGGGTGTAGCACTGTGTCCAGTCC
CGGTAGGGAGGGGTGCTGGAGGGGTGGCCACGACCGGGTCGAGTGACTCGGTGAGTAC
AGGGGAATGGAATGGAATGGAATGCAATGGAATGGAATCATCCGGAATGGAATGGAATTT

Table 1

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AATGGAATGCAAAGCAATGGAATCAACTCGATTGCAATGGAATGGAATGGAATGTAAAGG
AATACATTGGATCAACCCGAGTGGAATGGAATGGAAAAGGACTGGATTGGAGTGAATGG
AATGGAATG

Sequence 5196

CCGGGCAGGTACGCGGGGGTCTGCCGCGGTGGCCGGGTGCCGATTTGACAAGATCAAAGC
TGCAGGAAAATGGACAGTGAGGTTCAGAGAGATGGAAGGATCTTGGATTTGATTGATGAT
GCTTGCGGAGAAGACAAGCTGCCTTATGAGGATGTTCGCAATACCACTGAATGAGCTTCCT
GAACCTGAACAAGACAATGGTGGCACCACGGAATCTGTCAAAGAACAAGAAATGAAGTGG
GCAGACTTAGCCTTACAGTACTCGTCTTGGTGAGAGCGNGAGCTGCTGAGATTTGGGAGT
CTGCGCTAGGCCCGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACTCTTGTT

Sequence 5197

CCGGGCAGGTACATGGCATCAGCTCTGTCTTCAGGAATCTTTGGCTGTGTGGGAGGATAA
AGGATGTGATTTCTTTCTTCTCTCACCCAACGTGCTTATTCCATTTCTTTGATTAAATA
CTGGTATCATTGAGGCTGGGTGTTCTGACATTAAAGCCACCAGTAACTGTAGCACATCAT
GAATATTTTCATCCTCATCCTTTAGGTGTAATGCCGCTACTGTCAGCTGGATTAATAACC
CAGTAGTAATATTTTAAGGTGTGCATTATCTTTAATAACTGTTCCCTATTCTGCGTATGGT
GGTGTAGATGGTAGCAGTTCCAATAAATTCAGCAGACAAAT

Sequence 5198

CCGGGCAGGTACTAACCAGGCCCGACCCTGCTTAGCTTCCGAGATCAGATGAGATCAGGC
GCGTTCAGGGTGATATGGCCGTAGACGTCTTTACAAAATTCCTGACAGGTGGTTACTGAA
TCTCTCTATGAACCTTCCATTCAAACCTTTCCAAGTTTTTCTTATGTGGAACCGAAATC
TTTCTTTCTCCCGTGAACTTTACTACTATCAGATAATTGAAGACAGATCTCTTTGTATT
CTTTCAAGCCCAAACCAATTCTGTTCTTCAATCTAAATAGTGGTAATATGAATGTTTA
AGAAATGAAATAAGAAACATGTGCAGGCACTTTGGAAGGTGCTAAGTGACT

Sequence 5199

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGCACATTTCAAGAT
AGCAGCACTCAGTCCATGCCCTATTATCCATCTTAAAAGTTCACACATTATTGTTTACTG
AATAATATTTCTACTGTCTTTACCCCCAAACATTGCAAAACCTGCAATGGAACAATGCTG
TGAGTTATAATGTAGAAATTTTTTTTTTTTTTTTAGAAAATCAGTTACTTCATTTTCT
TAATATTCTGAATTCAAGTTATCAGATCTCTATACCTAGGTCATACTCATGAAGCAAAA
TGCTGCACACCACTGAAAATAATAACGTTATAGATGTCTATCAAATTCATGAAAACCAG
CCAGGCGCAGTGGCTCGCACCTGTAAT

Sequence 5200

AGGTACAACCTGTCCCAGCATGTCAGTTACACATACTGGCCCTAAATGTTTCAGCATAATTT
AAAAGGGAAAGAAAAAAGTTGGCTTTTCAGACAAAATTTTGTGTGAACTGAACAACGTCA
GACTATGCTTCTTTGGGTCCAAATAATTTTAACTTTACAGCTCTCAGATGTTCTGGCAGC
TCATTCTTTGTCCATTTACCTATTATACAAGTGTTTCTGGGTCCAAGCCACAGAGCAA
ATANACACAAATAAATCAAATAATAAATGTTTCATATAAAGGAGAAAATGCTAATGGTCT
GTTATCTATACCAGCAGTCCCCAACTTTTCTGGCACCAG

Sequence 5201

AGGTACTGGTCGCAGAGTCTACTCCTTCAACAGTCCCAGCTTCTTCAGGGCCTCCCTTCT
GTGTTCAATTGGGGACACCCTTTGGGGAGATCTTGACACTGACACAGGGGGGGCGAGGAAG
CTTGTCACGGCTCTGTCTTGGTAGGACAGGCGCTTGAGAGCTCTGCTCCTGCTCCAGGTC
AGCCAGCTTGCCCTACCTGGATACTGCAAAATCTTTCCCCGTGCCAGGGAGGCCGGGCG
GGGCCGAGAATTACGTAAGACACTGGGCGAGATCTTGTTCCAAGAAGGAGCCCTTTCCAG
AGAAGTGCTGGTTTTGGGGCTGGCATCTTCTCAGTTGAAAGGTAGCTGCTCAG

Sequence 5202

AGGTACGCGGGCTCCTACTTGGATAACTGTGGTAATTCTAGAGCTAATACATGCCGACGG
GCGCTGACCCCTTCGCGGGGGGGATGCGTGCAATTTATCAGATCAAACCAACCCGGTCA
GCCCTCTCCGGCCCCGGCCGAGGTACAGGGTGTGACAACATGACCTGCATCATCATTG
CTTCAAGCCCCGAAACACAGCAGAGCTCCAGCCAGAGAGTGGCAAGCGAAAACCTAGAGGA
GGTGCTCTCTACTGAGGGGGCTGAAGAAAATGGCAACAGCGACAAGAAGAAGAGCCAA
GCGAGACTAGCAGTCATCCAGACCCCTGCCACCTAGACTGTTT

Sequence 5203

AGGTACCACAAATTAATGGTTAAATGCATCCCTCATACGACAATGTAACCTTCTTCCTCT
CACTGTTGATGGCCTATCTTCTGAAAACATTAATCTGGGGGTGAGAACTTGGGAGATAC
ACACAGTTGGGTTACCATAAATGAGGAGCCTCACTGACAGTGGAAGATGCACAGGAAAA

Table 1

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GAAAGAAGACTATGGGCTGCTTCCTTAGAATTGTCTTCCTGCTTGCTGTGTTACTGCTAG
AGCTTCCTGTGTGGGCTCCATATGGTCCCTATTCTTCCCACCACTCATGAAAACACCAA
GAGCAGGCTCAGAGTGACCACAGCCAAGCCCCAGCTCTGCCAGCAGGCC

Sequence 5204

AGGTACAAGAGTGATTCTGGCATGCCTATAAACTTTCCAACCTCCTTCTTTATATTCTGTC
AAGACTTCATGATGTTCTGCTAGGGATGACAGCGTAAGCTGAGCCATGGCAGGAACCCCG
TGGATATTATGCAGCGTGTGATGGGTGAGGTGTGGGGCGGAGCCAGTCTTGGTATACAGA
AGGCAGCCTGGAATATCCATGGTGTGGTCCCCCTGTTTTGCCCAGGTTTTTTATTTTTCT
AGGCGACAGCCATTAACCTTGGCAAGACTCAGCTTCATCCTAAGGGATTCTTCTAGG
TCCTGCCAACAACCATTCGACTCTTTCAGTCTTCAGACCCCTCAAACCTCCTCA

Sequence 5205

AGGTACCACTGGTTTGCAAATAGAGAAACCTCTAAGACTCTTCTTACTCATTTCCTTGAC
CAAAATAAACTATGAGTGGAATGAGGTGATGAGCAGTAAGCACACTGGAAAAGTGGG
ATGATCTTGAAGCAAATTGCTGATAATCACTTCTGGGATTCAGACTGAGACTTGAGCAAG
CTTCAAGGTTGGATGACTGAATTGAAGACTTCCATGTTAAATTGGTTATCTTGAGAAGGA
TACAAGTTAATTTTCAGATATTGATGATGCTCAAATACTTCCCCGCTCAACTAGAGTCAGA
CATTTTTTCACAAAGTGAAGAACTGGAAATGAAGTTTTTGGTGCTTTGAATGAG

Sequence 5206

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTAGGTGTTGTAGTAGGAGATGGCAC
AGTGGTGTGTATGGTGGGTGCCACTGTTGAAGTTTTGTCTTTATCACACAGGAACTCATT
TGTGCTCACTGTGCCATTTTGGACAAAAGCTTGTACCTGCCCCGGCGGCCGCTCGACTGA
CACCCACCCTGACAAGTGTCCATGATGCTGGGCCCTGAGGGAGGTGAAGGCTTTGTGGTC
AAGCTCCGTGGCCTGCCCTGGTCTGCTCTGTTGAGGACGTGCAGAACTTCCTCTCTGAC
TGCACGATTCATGATGGGGCCGCAGGTGTCCATTTTCATCTACACTA

Sequence 5207

AGGTACAACAGTTGATGATGAAGAACACGATGATAAGGAAGAAGAGGAGGAGGAAGATGA
TGAAGTGTGGCTTGAAGACTTGTGTTGTTTGTCTTTTCGACCACTCCGTGAGTCGGC
TGCTGATGAAGTGGCATTCTGTGTTAATGTTGTCATAAGTGCCGAAGATGATGAATAGCC
AACTGTTTCCCTGGCCATTGAAAATTCTTTTCCCAACTGAAAGTCATTATTCTTAAATGC
TTCATAACTGGCTTTTAAACTTGATGTTCTTCGTCCCTCCTTCATCTGAGCTGTAGCCTG
AACTGCTTGAGCAGCTGCCATGGTAATTGCCCCCTGCACCAGTT

Sequence 5208

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTAAANAGGAAANCCCGGTAATGATGNCGGGGTTGAGGGATAGGAGGANAATGGGG
GATAGGNGTNTNACCNTGAGGGNGTTGAACNNTGGTCACCTTNGGAGGGTGAACCTTGCNC
ACACACNTCATTGGAATAACATGGAGGTCCACACACTGAAG

Sequence 5209

CCGGGCAGGTACAATGATGTTTTTCATCAGCCATGGCAGGCACATAGGCTCCTCCTGCGGT
GCAGGAGCCCATGACCACTGCGATATTTACTGGTTAGGAAGGATATCATAAAGGATACAG
ATGAACAGCCAGATGAAAAGATACATAAGGCGAGTCTGCAAAGGTCCTGAGGGCTGGAGC
TTCTGTCCCCGCGGAGTGGGAATGCACCACCTTCCTAGCACTTGGATGAGTTTGCCAGCA
CAGATGCCCCCGCGTACCT

Sequence 5210

CCGGGCAGGTACGCGGGGGGAGCTAAAGTGGTCGTGATTCATGCTGTGCGGGGAACCCCG
AAGGTGGGGCCCCACGTAACAAGAAGATGACCCGAAGTTGCTCCGCAGTGGGCTGCAGCA
CCCGTGACACCGTGCTCAGCCCGGGAGCGCGGCCTCTCCCTCCACCAATTTCCAACCTGAT
ACCATACAGCGCTCAAAATGGATCAGGGCTGTAAATCGTGTGGACCCCAAGCAAAAAG
ATTTGGATTCCAGGACCAGGTGCTATACTGTGTTCCAAACATTTTCAAGAAAGTGAATTT
GAGTCATATGGCATAAGAAGAAAGCTGAAAAAAGGAGCTGTGCCTTCTGTTTCTCTA

Sequence 5211

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGCATTCAACTTAAATGCT
TTTATTGACAATGTCTTGGAACAATAAGCAAACCCCGCGTACCCAACTNTNAGCCANAGA
TGGTGGAGGCCGTCAANAAGCACATTTTAAACATGCTGCACTTGAANAANANACCCGATG
TCACCCAGCCGGTACCT

Sequence 5212

CCGGGCAGGACTCCGGTCCGGTGTGTCAGCAGCACGTGGCATTGAACATTGCAATGTGGAGCC
CAAACCACAGAAAATGGGGTGAAATTGGCCAACCTTCTATTAACCTTATGTTGGCAATTTT

AGGTACTTTCCTTTTTTTTTTTTTTTTTTTTTTTTNGNCACTACCTNCCCCGGGGTTTCGGNGT
AAGTTGGGGNGTTTATAATTTTTGGCNGNCCGNCNTGGNCNTGGGCNCTTTTCTCTTTG
GGGGAATGGGTGGGGNTTNAAGTCNCCGNTTTNTNNTTACAAGGGGCCTTCCCCATTCTN
CTCNGGGNAAAATTCCGTAAAACCCCNCTGGGAATATTCNCCCNCCGNNTTCNACCCCN
CGTTGGGGNTTCCAACCCCAAATNGGGTTTAAGNGGNCCAANCCGGGGNCGGAACCTTT
AACCCCAATTTCNGNAAAAAANGGTTTTTGGGAATTANAGGGGGGGGCCCAANNAAC
CGTNTTTCAGNAAAAATGGGGGGTTCGCGGTGCCCTCCCCCGNCCCAACGGGGGGGGG
GGGGGGCCCGGTTGGNNCCGAAATTTTCAGGGGGGCTCCCCCNNAANGGGNTTTTTANT

Table 1

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TTCCTTAAGNNAANNTTTCAAACTCCCAANAAAAGNTCCNCCGGTTCCNTGGGTTTNGNC
NCCCCGGTCTCCCCCCCCCAGNGGNCNCCGGTCTTTTCTTTAAGANAAAANCCTTAAGG
TTGGGGGGAAATTCCCCCCCC

Sequence 5217

AGGTACCCATCTAGGTGAGCCTTGAGCAAAAGGTAATTTCACTGCCCAACTCTGCAAAGA
GCACCAGGGAGTCGAGGTTGCCAGCCACACTCACCGCTGGTAGGGATGCATGGAAGCCGA
CTTGATGTTGGTTTTTATTCCACTTGGCATTTCCTGGTTGACCTGCCTGAGCCATTG
TACAATTTCTGCCACTGGTCTAGGTGTCTGAGGAGCATCTTCCTGGCTCAGAGACCTTTT
GCTCCAGGTGCTCATGCCGCAAATGGCAATCTGCGCGCGAACTAATTC

Sequence 5218

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTAGGTTGAATGCAGGGTTTTATTGA
GTGGTGGAGGTGGTTCTCTGAAGGATGGATGCANCAAGCTGGAAGCCGGGGATGGCACGGG
AAGATAATCTTCCTGCTGGGTGGCCAAACCTCTCCGACCACCCTCGGCTGAACTCCTCTC
GGCGTTCAAATGTTCTNTNNTNNTNNTTCTCTGCTGNATCGTTTNACCATTCATCTGCTT
GTCTGGGATGGTGAAGACAACCTGTTTGCTCATTTGCTT

Sequence 5219

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACACCTATGGGTGCCC
ACAGGGTCCAGCTAGGNGTATATTATATATAGGCCACCATATAGGAAGNCCCTTCGCACTCC
ATTCTNGNAAGTAATTTTANCCCCANCCCTTCATNCCNTNTTTTTANAAAAGGAACCAAT
AATTTTCTTTTAATGTNTGCATTCCCCCTTCNCCANAAAAGGAATTATAAAACCAATTNC
AACCAATTGGGGGAAAAAAAATTGGTTNNTNCAACCAATTNCCAAAATTTTTCCTT
TTTTTAATTTTAAATTTGGCCCCCAAGGTTTGGNAAAAANGGGGAAATTGGGCCCCCTT
TTTTCTTTTCCAANGGGGAAAGGAAATTGGCCCAAANCCAAATNGGGGAAGGAAAAAAGG
GTTTTTTTTTAAAAAAGGGGGCCAAGGGGCCAAGGTTTGGAAAAAGNAAANGAAAAAGGG
GGANCCAAAAGGNAACCGGTTTNTTCCAAAACCCCCCNAAGGNCCCTTCCCCTTTTAA
AGGAANTGGGGGAAGGNAAAAATTAANAAGGGTTCCTTGGGCCCCCCCCAAATTTTCCCC
CCCCNAACCAANCCAAANCCAAACCAATTNGNCCANGGGTTGGGGGGGGGAAAAAATG
GGCCCCCAAGGTCCCCCGGCCCTTGGGGCCCCCCTTGGGTTTTNCCCCCTTCCCAGGGG
GTTTNAATTTAAAAATTTCCCTTCCAAACCCCCCTTGGGTNNGGGCCCTTTTCCAAAAAA
GGGCCCCCCTTGGGGAATTTTAAATTTTAAAAACCCA

Sequence 5220

AGGTACCACTTTGTCCAGATGGGTTTATACTATACAGTGGTAAATTTTATNGGTAGGGG
TANACCAATTCNTGGTCNTTTTTTCCTTTTCTTAAGGGNAAGNTTCTTGGGTAAGTCCTT
TTCCAAGTTGGGACCTGGTACTCCTTTTTTAATTANAAAAANAACCCCAATGGGGNAACCA
CNCNCCAAGGGTTTTTTTAAAGGGGTTGNAAGTCCTTTTTCTCCCCTTCCGTAATTGGGG
CCCCCCCCCGGCCGNNTTAACCCCTTTGNCCCCCCCCCGGGGNGNCCCGGGGCNCCCGCCT
TTCCTTAAANAAAAACCTTTNAAGGGTTNNGGGGAATTTNCCCCCCCCCGNNGGGGC
CTTTGGCCAAGGGGGAAAAANTTCCGGAAATTAANTTCCAAAAAGGCCCTTTTAANTTCC
GGNAATTTAANCCCCCGGTTNCCNGNAACCCCTTTCTTNNAAGNNGGGGGGGGGGGGGG
GGGGCCCCCGGGGNGTTTAACCCCCCAGAGNCCCTTTTTTTTTTTGGGNTTNTTCC
CCCCNTTTTTTTTTTAANTTTGGGGAAAGGGGGGGGGGTTTTTTAAAAAATTTTTTGNNC
CCGNCCCCGNCCCTTTNNGGGGGGGCCCGGGTTTAAAAAATTTCCCAAATTTGGGGGGG
TTNCCCAAATTTAAAAAGGGCCCTTTGGGGTTTTTTTTTTCCCCCCTTGGGGTTGGGGNT
TGGGGAAAAAAAATTTTNGGGNTTTTTTAATTTCCCCCCCCG

Sequence 5221

CCGGGCAGGTACGCGGGCAGATGCCTCCGGCCCACAGTTCCACCAGGCAGCGGGAGAGGA
CCTGCTGGCCCCACCGCACGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTCA
CAGCACGTTTCCATCTTGCTGCCCAAATGTTCCAGCAGGCCACAGGCAATGTGAAGTAT
TCATCCGGCCAACCAATGTTTCCTGACGTACGCGGGGAGAGAGAGAGAGAGAGAGTTGTCA
GGAAAGCTGCAGGTTACTTTGAGACAGTCGTCCCAAATGCATTAGAGGAACTGTAAAAAT
CTGCCACAGAAGGAACGATGATCCATAGTCAGAAAAGTTACTGCAGCTTAAACAG

Sequence 5222

AGGTACTTCTGCTCCACGAGGAAGGGGATCGCCAGGCACTACCGCATCAAGCACAATAAT
GTCCGAGCCCAGCCAGAAGGCAAGAACACCTCTTCAAGTGTGCCCTGTGTGCCTACACC
AACCCCATCCGCAAAGGTCTGGCAGCCCACTACCAGAAGCGCCACGACATTGATGCGTAT
TAACTCACTGCTTGGCAGCCTCCAGGACCATCAGCGACAAGCCCAACAAAGTGATCATC
CCATCCCCGCCCAAGGACGACTCCCCTCAGCTGAGCGAGGAACTCCGGCGGGCAGTGGAG

Table 1

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AAGAAAAAGTGCTCCTTGTGCTCTTCCAGTCGTTTCAGCAAGAAGGGCATCGTG

Sequence 5223

TATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTGTGTAGAAT
TAAGCAATACATAGGTGGTATGTNTTCANGTAAGGTAAGTAAAACCTCCCATTTTACNTGNCNTN
TGANATATAATTATATAGGGCGCCTTACCATTTCATANCCANCCTTTTANANCNTNCAATA
TACCGNAGGGGACCANAATTTGGGTGTGAATTTTAAAGGTTTNTGTTTNAATTTNTGCAA
TTAAAATTCCAATTAAAAAACCTTTTAAAAACCTTNCTTGGNCCNAAAATTCNCCAAGNC
CCTTTAAGGGGNCCAANTTGGGGGGGGAAGGGGGGGGNAAAAANCCCAAANNGGGGGAAA
AAAAAAACCCAAATTTGGGGGGNAAAAACCCCCCCCCAAAAAAGGGGGGGAAAAANCCT
TGGGNCCANGGGCCCGNAAGGNAAGGGCCCAANCCAAAAAANGGAAATTTTTCN
TTAAAGGGGGGAATTTAACCTTTGGNCCCGNAAAGGNCCCAAAAANAATTTGGGGGG
GGGGGGTTGGGGTNAAAAGGGGGGGGGGGGGTTTGGGCCCTTTCCGGGCCCTTTNAATT
TGGNTTTTTTGGGNCCCCCCCCAAAGNNGGGGCCCTTGGGGGGGAAGGGTTTGGGCCAA
AGGNTTTGGGGGGGCCCTTTAAATTTTTTTCCCAAACCCAAAGGGGGGNCCCGNCCCC
GNGAAAATTTCCCCCCCCCAACCCTTTAAACCTTNGGGGAAANTTNCCCAAAGGNCCCA
ACCCCGGGGGGGGGGNAAAGGNTTTTTTTTTTTTTTTGGGNAAACCCCCCTTTGGGG
CCNTTTCCCCCCCCGGTTTTNTTCNCCCCGGGAACCNCCCTTNGGGGGGGGGCCCCCCC
GGGGGGTTTTTTNNAACCCCCCCCCCTTTTCCTTTTTTNAAAGGGGGGGCCA

Sequence 5224

AAGAAAGCCNAGCCTTGAAAGAATGGAAGTTGGGGGGTTTTAAAAACCCCCCAAATAACC
CCCCAATGNAAAAAAGCCTTGGNCCAATTGGGGCCCCCTTNGGGGAAGNAAAAA
GCCTTGAAAACCCCAANGGCCCTTTTTTGGGGAAATCTTTTCAATTGGCCCCCTTG
GGGGGTTTTTCTTGGCCCCCGNCCCAACCCGGGGNAACCCCCCCCCCAATTTCTTTT
CTTTGGTGGGAACCTTTTTTCCCTTGGGGAAAGGNAACCTTCCAACCTTTTTTTCCC
TTTAAANAANTTGAAANGGGGAAAAAGNTTTGGAAAAAGCCNTTTTTATTTCAAAAA
GGAAAAAGNAATTGGGGGGNTTGGGAACCCCAACCCNTTGGAAACCCNAAAACCCCTTTT
CCAACAAAAGGGGCCCTTGNNGGGGGTTNGGGGGCCCCCNGGGGAAGNNGGGGNCTTTG
GGGGGGCCNTTGGGGGGGGCCGAAAAGGGTTANATTNCTTTCTTTTCCNAAAAAAG
GGGGCCTTTNAACTTTNNTTCAAAAANGCCCANCCCGGNAACTTTAAANGTAAAGCC
CCCNTTTTTTTTTTGGGAAAGNCCCCCCCCANGTCCCGTAAACCCNTTTTTTTTTTTGGGA
AAAAGGGGGGGGGCCCCCCCCCTTTTNGGCCCAAAAAAAGGTTTTNAATTTAAAGGGGG
G

Sequence 5225

AGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGGGGCTTTCTTATTTNTCGTACT
CCGNCGGATGGTATGGGTGGGGGCTTTCTTGGGGTAAAGGGNCCGGTGGTAAGGCTCAA
CNTTTTCTTTTCCCGNCNGGANAACCTGGGGTCTCCGTAAGGGGAAGTAAAGTCCGNCC
GNAGGGGGGNCCTTANCCGNAAGGCCGGTTCNTTCNCTTGGAAAAAGNAATGGGCCAAAA
AAAAAACCCCAAGGGCCGGGTGGGGGGCCGGGGGGCCCCCGGCCTTTCNTTAAAGNAAAA
CCCTTAAAGGTGGGGGGAATTTCCCCCCCCCCCCGGGGGGGCCCTTGGGCCNAAAGGGG
GGAAAAAATTTTTCCNNAATTAAATTCCAAAAAAGGCCCTTTTAAATTCCNGGAAANTTA
ACCCCCCGGGTGCCNGNAACCCCCCTTTCCCGGNAAGGGGGGGGGGGGGGGGGGGGGC
CCNCCCCCGGGGGGGTTTAACCCCCCCCCAAAAAGGCCCTTTTTTTTTTTTGGGTTTTTT
CCCCCCCCCTTTTTTTTTTAAAGNTTTGGGGAAAGGGGGGGGGGTTTTTNAAAAAATTTTN
GGGGCCCGGGCCCGGGCCCTTTTGGGGGGGGCCGGGTAAAAAAATTTNCCNAATTTGG
GGGGGTNNCCCAAATTTAAAGGGNCCCTTGGGGGTNNTTTTNCCCCCTTTGGGGGTGG
GGGTGGGGGAAAAAATAATTTNTTGGGGGTNTTAAATTTTCNCCCCGGGNCNTT
TCCAAAACCNAAAAAATTTNTTNNNNNCCCAAACCCAAACCCAAAAACCCAAATTTAAAC
CCNAAAAANNCCCCCNGG

Sequence 5226

GCCGGCCGTGGTGGTGAAAGCTGTAANCCTCGCTCAAGTGGAAGGGAATCTTTCATGGAA
GGGGTAAGTTCCGGGTCAAGGGTTTCNCCCGGTCTCAAGTCTCAAGGNTNCTCAAGT
AACCGTCAAGNGNATGGNGTCGNTTGGGGGGGGGNAAGGGNGNCCGTTAANTCNCCCTTC
NGTTTAAGNATTGGGGGGTCCAACCCGGTTGGTTGGGGGGGTGGNAACCCCCCCCCCGTT
TCTTTNTCCAAGNTAAGGTTTCCCATTTGGAACCCANANTTTNCCCCAAAGTTTTGGGG
NTTGGCCCCGNCCCCCCCCAAAAATAANGGGGGCCCNNTTTNATTTGGGGGGGGGGGTAAANCC
AAAGGTTCCAACCCGGGGGGNCCCTTNGGGNNAATTTGGGGGCCCAACCNNGTTAANCC
CTTTNNGNGNCCCCCGGGCTTTCTTTAAGAAAAANCNTTAAGGTTTNGGGNNAATTTCC

Table 1

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CCCCCNCNGGGGGGNCCTTGGNCCAAAAGGGGGGAAAATTTTTCNGAAATTAATTCCA
 AAAAGNCCCTTTTAAATTTCCGGAAATTTANCCCCCGGGTTTCTNGTAAACCNCTTTT
 CNTTAAAGNGGGGGGGGGGGGGGGGGNCCCCCCCCCGNGGTTTAATCCCCCCCCAAAANCC
 TTTTTNTTTTGGTTTTTTCCCCCCCCCTTTTTTTNAAATNTTTGGNAAAGGGGGGGTTT
 TTNAAATTTTNGNTCCCGGCCCGGCCCTTTTTGGGGGCC

Sequence 5227

AGGTACTTTTTTTTTTTTTTTTTTTTTTTNNGGCACTTTTATTTTTGGGCCACTTAT
 TTTTGGNAAAAGGTGCTTGGNANAACNTTTTNAAAACCAAGAGATTTTCTTTGGGGNA
 CCTGGGGGTGGGGTNTGCAATTAATTCCCAATTCAAAGGCCTTGCGNTTGCAAAACCT
 TTTTAAAGTCANCCCCCTTGGGTGCTTCCGGTGCNCCCCNAAGGTGGGGGCCTTTTTT
 TTTCNCCAANGNAAAACCTTNAACCTTNGGGCNCCTTTNCAACCCCCCAATTTGGGAAA
 AAGNCCCTTCCCCCAATTTGGGAAAGGGCCCTTTTNTTTTCCCCCCCCAAAATTTTTTCN
 AAAAAAACCTTTTNGGGGGGGCCNTTTTTNTTTTCCAAAGGCCCAATTTTTTTTTTTA
 AACCTTTTTTTTTGCTTAAAAACCCCGGAAAAAGTNAACCNNTTTCNNANTTTGGGGG
 AANGGAANGGGGGGNAATTNANAAAAAATTTANGGGAATTTTNGGGGGCCAAAAAGGN
 CCCCCTTTTTTTTTTCCCTTAAATTGGGGNTNCCCTTTTTTTNTTCCCCAAAAAATTGG
 GGCTTTNGGTTTCCTTNGGGGGGGGAAAAATTTCCCAAAAAATTTTTTTAAATTNTTGG
 GGAAANCCCCCANCCCTTTTTTTNNTTTTTTTTTTCCAAAAAAGGNTTTCCCAAATTTT
 TTTNGGGGTTTCCCTTNGGGGGCCNANCCCCCTTTCTTTTCCGGGGGGGGGTTNCCC
 AAATTTGGGGAAATNTTTNTTCCCCCNAAATCCCNAANTTNCCTTTTTTNCCTTTTTNC
 CC

Sequence 5228

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATCGTCTTGTATCA
 CTCCATTAACAGNATAGGNATGGCTTATNATTCACGGTTTTAGGGCTTCAAGGGNCTCTT
 TGGGGNGNCCAATGGTANAACCATTGGGGGGGAAGGGGTGGGCTTTCNCCCGNCTAAGGG
 NACTCCTNGGCCTGGGGNCCAACCTGGGGNCCANANAGACCAAGTAAATACCCCANCCAN
 AAAAAGGGAACCAANTTGGGGGGTAAAAGGGGGTNGGTTTTTTGGGGGGGGAAAAAAAAT
 TNAATTGGTTGGGGGTTCGNTNGGTTTTCCCAAAAATTTTNGGGCCCTTCCCAAAGNAA
 TTTCCAAAAAATTTGGGGGGNATTTTTTTTCCCAAAGAAAGGGGCCCTTANGGGGGAA
 AAGGGGAAATTTTTTTCCAAAAAAGGCCAAANGGGGAAANAANAAGGGAAAAAAGGGAA
 AAAAAAGGGAAAAAACCCCAAGGGTTTTGCCAATTTTTTTTTTTTTTCTTGGGAAATN
 GGGGGTTGGGAAATTTTNGGTTGGGTTTTTGGGAAANTTTTTTTAAAAAAATTTCCCCC
 AANGGAAAAAATTTTTTTGGGGGGGAAAAAATTCCTTTTTTCCCTTTTTTAAAAANCCCGG
 AAATTGGGAAAAAACCCCCCCCCCTTGGGGGNNAANTTANATTTGGGCCCTTGGGGGGGG
 GGGCCCGNCCCCCCCCAAGGGGGNGAAAAANCCCNNTTAAACCCCCCAAGGNAAAAAA
 ANAAAAAACCCCCCNNTTAAAAAATAAAAAAATTTTCCCCCAAGGGTTTTTTTTTN
 AAAGGNAAAAAAC

Sequence 5229

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGCTGTTTGTGGATCGTA
 TCAAGCCGCTATGGTGGNAANACCAGGCCTTTTTACTCTGTATGGTAGNTTTTTGGGGTC
 CAAGTCNTTCNACCTCCCTTTGGGGNAAGNCTCCAGGGGGGGNCCCCCTTGNCCANATGG
 GGNCTTNCCCAAGGGGAAACCAAGTCNTGGTTGGTAAANGGGGAANGAAAAGGAATNGNA
 AGGGGAAAAGNAAAAAANTNGGGGGGAAGNCCAAATTCCAANGGGGGGAAANGNGAAAAA
 GGGGGCCCAANNANGGGAAGGCCCAAGGCCNTTTTTTTTCCAAAGNNAAAAAANCCC
 AAGGNAAAAAAGGGGGCCCAANGTTTNGGGGGGGGGGGGNAAAAAGGNAATTTGGNAAAGN
 CCCCCAAGGGGGGAAAAAANTTGGGAACCCCCCCCCCAAGGGTNGGGAAGGGAACCCCCA
 NCCCCCCCCAAAAAANAANGGAAAAAAGGGAAATTTCCCAANAANAAGGGGGGGGGCCC
 CCAAAGGNTCCCCCCCCCTTTGNGCCNCCCCCAAAAAAANAANAAGGGGGGGGGCCCT
 TTTTTTTTTTTNTTTAANCCCCCTTTTTTCCCAAAGGGTTTCCNTTTTTTGGGGTTNGGGNA
 AAAAACCTTTCCCCCTTTAAATTTGGGGGGGAAAAAACCACAAAGGGCCCTTTGGGGA
 AACCCAAATTTAAAAAATAATNTTTTCCCAAACCTTTTTTNGGNCCCCAAAGGNNCCC
 TTTNGGNAAATTTGGGGGGGGGAAAAAATAAACCCTTTTNNACCCTTTTTTTAAN
 AAAAAACCNTTTCCCAAAAAACCNTTCCCTTTTCCCGGNAAATTTCCCTTTAAACCC
 AAACCNTTGGGGGGNGCCCCCAATTTTGGGGGGGGGNAATTTTGGGGGGGGGGGGG

Sequence 5230

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTT
 TTTTTTTTTTTTTTTTGGCCATGTTTATTTTCTTTTNCCAAGAAAAAAGGTNTGTTTTT

Table 1

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CAANAATTAAGGCCATTNNNCTTTTTTAAAGGTCCACCCCATTAAGTAAGGGGCAAATA
TCTTCTATACCCCAACNCCCCCTTTACAATTTTNAATTTTNAAGNGGTCCGGGTTT
GGTTTGNCCNNTTCCCCCGGCCAANAAAACCCGGGTTTNAACCTTTTCTCCCCCCTAAA
GNCCTTTNGGGTGCNTTCCAAATTGGGAAAAAAATTTCTTTTTTTNGGAAAAAANATCC
CCTTGNGCCCCAANNGCCTTTGNAAANNCTTTTTTTNGGAANGGGAATTAAAAAAATTTT
CCTTCAAAACCTTATTTAAAANNAACNCAATTTTNTTTTCTTNGGGNTNNCCTTTTAAC
CAANGGGGGGGGGGGGNAGCCCAANTTTTTTCCGGTTNCTANNTNCCCATNTTTTTTT
TNGAAAGGGGNTTTCTTGGNCCCCAACCTTANCTTTAAAAANA

Sequence 5231

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGTGAAGTGGTCCCGCG
GGCCCCGAAAGCCGTTTAACTTTGGNAAAAAANAATTAAGNAAGGTGGTGTCAANAA
AGNCCAAGNGTCTCCCCGGAAGTCTCCGTCTCTNGNGTATTAACCCCGGCAAGGCCTTA
GGGGAAAATTAATTTGGGGANAATTANGGGGAACCCCGGCCGGGTTTTTCTTATTTTTT
TGGTTTTGGGGTTTTTTTTTCCGNGTAAAACNTGGNAAGGGGGGCCCAAATTGGNAATTT
TAAAAAAGGAAAGGGGGGGGNCCCCGGGGCCCCCGGCCTTTCCTTAAAGAAAAACCTTNA
AGGTTGGGGGGAAATTCCCCCCCCNCCCGGGGGGGCCTTGCCAAGGGGNAAATTTCCG
GAATTATTCCAAAAAGGCCNTTTAATTCCGGAATTAACCCCGTTCCNGTAACCCCTTTC
CGGNAAGGGGGGGGGGGGGGNNGGCNCCCCGGGGGTTAACCCCCCAAGGCCTTTTTTN
TNGGGTTTTTCCCCCTTTTTTTTAAGTTTGGNAAAGGGGGGGNTTTAANAATTTTTTG
CCCGGCCCGNCCCTTTTNGGGGGGCCCGGTTAANAATTTCCAAATTGGGGGGTTCCAATTT
AAAGNNCCNTTGGTTTTTTTTTCCCCCTTTGGGTTGGNTTGGGAAAAAAATTTTNGGG
TTTTTAANTNCCCCCGGGCTTTTCCNAACCCAA

Sequence 5232

AGGTACTTCGGGAAAGTGGCTCATGGCCTCCACCAAGCTACCTNGCCTTCCCANAAAGGTG
GGACAAGGANATAATGGGTGCAANATCTCANGGGGGGCCAAGTANGNCTCCTTTTCGGN
CTCCACNGGGGTGCCCGNCTCCTGGNCTCCAATTTTCTTGGNCCGGGGCGCAACANANA
AANANCCAATTCTTGGNCTTCCGCNTTAAGNCCNCAACCAAAATTTNGCCAAGGAAAAAG
NAATTCCCCCGNCCGGGGTTTTTGGNTTTTGGGGTTTGGGGGGGGTGGNCCCCCGGCN
CCNGNAACCCGGGGGGGGTTTAACCCCCCTTNGGGCCCCCCCCGNGGGGNCCCCGGGGGCC
CCGGCTTTCNTTAAGNAAAACCTTAAGGGTNGGGGGNAAATTTCCCCCCCCCGGGGGGGC
CTTGGCCAAAGGGGGGAAANTTTTTCCCGGAAATTAATTNCCAAAAAAGGCCCTTTNAAA
TTNCCGGGAATTTANCCCCCGGGTTTCCNGGNAAACCCCTTCCNGGNAAAGGGGGGGG
GGGGGGGGGGGGGCCNCCCCCGGGGGNTNTANCCCCCCTAAAGNCCCTTNTNTNTTGGG
GTTNTTCCCCCTTTTTTTTAAAGTTTGGGAAAGGGGGGGGGTNTTAANAATTTTTTG
NCCCGGNCCCGGGCCCTTTTNGGGGGGCCCGGTTTAAAAATTTNCCAAANTTGGGGGGG
NTTNCCAANTTTAAAGGGCCCTTNGGNTTTTTTTTTCCCCCTTGGGTNGGGTTGGGGAAA
AAAAATTTTGGGTTTTTTAAATTNCCCCCGGGC

Sequence 5233

AGGTACCCCTCCAAGCCGGACAACCCGGGCCGAAGGGNACCGCACCATGCGGGGTAGGGG
ACNATGGGGNCGCAGGTATGACTTNATCTGCGGGGTGNGGCTTGGCGGGACAANCTTNAC
AATTGCAAAACCNCTCAATNCAACCNCAAGGGNCCANGNGAAGGATTATTGGGGGANAA
ANANCCGNAATGCNCAAAGGCGCCCAAGGAGNAACCAACCTTGGNAATTTTTTTCAAAGG
AACCCCTTCTTTTNGGNAATTGGAAGGGAAGNAAAAAAGGGCCACCCAANGGAAAAAA
AAATTGGGTTTTNCCCCCNAAGGGAAAANCNTTCCNGGGGCCNTTTTNGGGAAAAAGGAA
ACCCCTTGGCCAAATNGGTTGGGGGTGGGAAATGGGGGGGGAAAAAATTTGGGAAG
GGAAACNTTTTGGGCCCTTNCCTTNCCTTNGGGGGCCCCCTTTNTTTTGCCCTTTAA
ATTTTTTTNTTGCCAAAGGGCCCCCCCCAATTTAAATTTTTTTTGCCAAATTNCCCGGGGT
TGGGGTTNAAAAAATAACCCGGGAAGGGGAAAAATTNCCNCCAAACCNCCCCCAA
TNGCCTCCCTTNAACCCCCCAAAAAANTNGGGGCCCAATTTGGGNCCAAAGGNCCGCC
AACNTTGGGNTNGGGCCCCCTTTGGGAAAAAATTTTTCCCTTNGGGCCCCAAAAAATNG
GGGTTNTTTTTNTTCCCCCTTTTTTTTTTGGGGTTGCCCAAATTTCCCAAATTTTGGGG
TAAATTAATTTAAATTGGGGTTGGGTNGGGTTTTTTTTTAAAAAATTTNAAAAAAGGG
TTNAATTTNCAAATTTGGGCCCAATTTTTTCCNAAAAAATAAAAAA

Sequence 5234

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAACTGGAAGCAA
GCACAATATTCTGGGCCATCTGTTTNGGGTAAGTATACGTATGGNATANGTAAGGGGGTC
NNTTCTAAATCTCTCTTTGGGNTTTTANAGNAATTCCTGGGNAAACCCCTGGGGTAAG

Table 1

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TAAANGGAAGTAAGNAATGNGNTTGGGGCCACACTTCNCCACCTTCCTTGNCNAACCTTC
CGNAAAATTCNTTTTTTCACCCNTTGGCCTTAANTNTTCCCCAAGGGGNAAAACCAAGNNA
NGGCCTCCAAAACCTTGGGTNTTGGGTTAATTCCTTTTGGGTTTTTGGGGAACCTTGG
TTTGCNCCAATTGGGAAAAAAAAAATCTTTCCAAACCTTTTTTANTANGGGCTCCNAT
TTGGGGGGT

Sequence 5235

CTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCCGGGTCAATTCAT
TTTCAGAAGCACTTTAAAGTTCTGGGATAATNTTNCCTTCGTATGGGTGGNCCACCTNNGT
GGTATTGGNCTCCTGNGNAAAANCNCTTTNCNCTTCNTGGGGAAAAGGTGGGCCTGGGAA
TNTTTTTTAATGGGGAACCTGGNAAGGGGACCTGGGGGTNGNACCTGGGGGTNCNTGGNTN
GNAATTACGNAAAAGTCCAAANAATTTTCCCCAAAAATTTNCCCCAAAAAAATGGGT
TAAAAATTTTAAAGGGAACCCAAAAAATTTCCAANTTTTTTTTTTTTTTTAA
AGGNAAAAATNGGGTNGGGTTTTTTTTTTTTTAAANTTTNGGGTTAAAAAAAAGGTTA
ATTCNTTTTTTTTTTCAAAGGCCTTTTTCCCTTGGGTTTTTCTNAATTTGGGGGGCCT
TTTTTTTTTTTTTTCANCGGAATTTAACCCTAAAAACCCAATTTTTTTTTTGGGTTCCTTN
AATTTGGGGGGNTGGGNAAAANCCTGGGCCNTTGGGTAAAAAAATTNGGGAAACCCGG
NCCCAAAGGNAAGGGGAAAAAANTTGGGCCCCCTTTNANAAAAAAAAGGGGGGGAA
CCAAAGGNGGGTTTGGGGGNTTTTTTNGGGGAANCCCTTNCCAAATGGGGGGGNAATTNG
GGAAATTGGGAAATTTGGGGAAATTNGGGTTNCCAAACCTTGGGGTTGGGGCCCCCAA
ACCCTTTNTNGGGGGNGAACCCAAGGGGGGGGGGGNCCCGGTTTTTTTTTT

Sequence 5236

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTAAAGGCACCNTAANNTAACCGTTCCTTC
GGGGGGGTGGGGNAAGNCNATTGGGGGGGNACCCCTGTAAATTTTCGGTTNTAANAAGA
AACCAATTTCAANGGGCTTCCAAGTATTNTTGTAACCTTTTTTNCAAGGCCAAAGAAAGT
CCGTCTTTTGNCTCCGGGNGGTAAGTCCAANATAGGNGGGGGAACCCANGGGAAAAANA
AAGGTCCCTTTGNGATNNAAATTNGGAAAACCCAAGGTTTGGGCCCTTGGGGGGCCNA
GNCCCAAANTTTNCAANCCAAGGGCCCCCGGGGGGGGCCAAAAANGGGGGGGTGTGGG
CCTTTNCCCCNGNAAGGCCCTNNTGGCNAATTTNNCCCCCCCCNGGGCCCCCGGNNTTTT
CTTTAANGAAAAACCTTTAAANNGTNGGGGGGGAATTNCCCCCCCCCCCCGGGGGGNCC
TTGGGCCNANGGGGGGNAAAAATTTTCCNGTAATTANTTTCCNAAAAAGGCCCTTTTN
AATTTCNNGNAATTTAANCCCCCGGTTCNCGGTAAACCCCTTNCNTTAAAGGGGGGGG
GGGGGGGGGTCCNCCCCCGGGGGGTTAACCCCCCCCCAAAGGCCNTTTTTTTTTGGGG
TTTTTCCCCCTTTTTTTTNAANTTTGGGAAAANGGGGGG

Sequence 5237

CCGGGCAGGTACTGGGGTCCAGCAGTCGGAGCATGCAACTGGTAAGGGGGCCGGTCCTTC
NTTCCCGNTTGTAAGGGTCTCCGTCTCCGNGTACCGNGNGNGNCNTGGTCAGGGGTA
TNCNTAGNCACCAATGGGGTCCTTGNCACACNTGTCTAAGTTTAAATCCANCCAAGNAACC
GNANCNGGGNNANCTCCCNATAAGNNGGTATACCCGTGNTATGNGNAAGNTTTTTANCCTC
CCCAACNCNCCNCCNTNTNGTTTAACCCGNCCNGGGNGNCCCCCTTGGGGGGGGCCGNA
ACCCANCCCAATTCCAAANGGGAACCTTCCCCGGTTTTNTTCTNTTTAAATNNTANAA
AANAANNAANNTATTNTTTTTTAAAGNAAGGGGGCCCCCAAATTNAANGAACCTTGGGGN
ACCNGCCAAGGGNGGGGGNCTTTTCAACAACCTTTTGGGTTTAANAATNNCCNCNAAGT
CCAANCCTTTTTTGNNGGGGGAAGGGGNCNCTNAAATNGGNCCGGGGNTTTNGGGGTAA
TTCCNAACCTTTTTNNGGTGGGGGGTTCCAATGGGGGAAATNTTTTCCCTAAGNAACCNC
CANAGTCCCTTNGGGTTTTTNAANAAACCNCCTTGGGGGTAAAAANAAAAANCCCCC
CCCCAATTTCTTTTTTTTNAACCTTNAAAAAAAAAAAAAATTTNAACCCAAANAAAAAT
TNATTTNTTAAAGGGGGGAANCCAAAGGGGNGCCGTTCNAAAANTTGG

Sequence 5238

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCAAGGGAAAGATGAAAA
ATTATAGCCAAGCATNAAATTATTAGTCNAAGGGGNACTTATACTCGCCTTATTACTCTT
TGCNTGTCCATNATANTGGGAAATTTNATATCTTAAGNATAAATTATACCTTTTTTGGTCC
ANAGGGGNAGGAAGTCTCAATATANGTCCTTATAAGTACCCNCTCTCCGNANATAACTCC
AAGNATCCGNGAAGGCCTTTAACCCTTNANAAGGNAAAACCCAAGGGCCTTTTNAAANN
AAGGNAAAGGGCCANCCCAACCCCCCGGTTCNCTTAAATTTGGNTTTAAAGGCCCAAAAT
AAAAANTNANGGTTTGGGGGGGGGAAAANGNNAATTTTTTAANTTANGGGTTTANGGNAN
GGGGCCCGGNANCCAATATAANCNCCTTAACCCCGNAAGGNCCCCCTTGGGGGNTTGGGAN
NTTAANGNCCTTNGGGGTNTTGGGTTCCTCCAANAAGGGAATTTAGGGNAAAATTTCCN

Table 1

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TTTTAAAGTGTNNTCCAAAANCTTTTTTTTAAAAAAATTTTNTNGGNCCCCCAACCCA
 NGNGNAANANCCCCCCTTNNTTTAAAAAAATTCNNCCCCCCTTTTGGGTTTAAAA
 NAAATNTTNTTTAAAAAACCTTGGGGTNTTTAAAGGGTTTTNNCCCCCAANNAANAAANG
 GTNAANGGGGGGAAATAAACCCAAAGGGGCCTTTTCNTTTTTTTTNGGGGGNAAACCCA
 ACCCNTTTAANGGGGGNNANAAAAANAAAAAAAACCCC

Sequence 5239

ACCACCGTCGCNAAGTCTCAAGTACCAAGTCTCTTCTCCCGTAAATAAAAGGGNCCANGG
 TTAAACCTNCGTTGCCCCCTTTTTTCAAAGTCTTANCCGGGNGGTGNNCCCCANAAGGGT
 ATTATGNTTGNCCCCGGCCCCCTTTTCNAAGGGGGGTTCCTTCTTAAAAGNCCTTGGTTN
 AAGGGGGGGGGNCCCTTGTGTTGGGGCCANGGGGGGTNCNCAACCCCCCNCCAATTGG
 GGAAGGGGGCCTTCCTTTTTTGGGNTTTAAAGGGGGGGGGGGGGGAAAGNCCCCCCCCG
 GGGNTCTTTGGGGANCCCCGCNCAAGGGGGGGGAAAAGGGAAAANACCCCCCGTTTTT
 GGGTTCNNGGGGGGGGGGGGGGCCCGGCCGGAACNNTNGGCCNTTCCCCCTTCCCCCTNGGT
 TAGNGGAACCTTCCCCCTTAAAAAAAATTTCCAACNNCCGGGGNAAAGTTTCCCCC
 GNGGTCNTTTGGTAAGNGGGGAAANGGGGGAAGNGGGGGGTAAATTGGTTTCCGGGGGGN
 NCCTTTNCCCCCCCCCAANNTAAAAATTTTGGGGGGGNAAGTTTCCCCCNTGGNCCCAA
 AAANCCCGNGCCCAAAGNTTNGGGGGGGGGGCCCCCCCTTTTTTCCCTTTTTCCTTGGG
 GTTNAACCCCTTTTGGGGGTCNCCCGNCCTTCTTTTAAAGTAAAACCTTAAAGGTTT
 GGGGGGAATTCCCCCCCCCNC

Sequence 5240

TAGGGGGCGAATTGGAAGCTCCACCGCGGTGGGCCGGCCGCCCGGGCAGGTACNCCGGGG
 AAAAAGGGAGAAGTACATGGGGTANAAGGGGGGTAAAGTACCAGGTCTCAAGGNTGGGGG
 CNACNCTGGGCNAAGGCGGGGCCCTTGGCCTCNCTTCTTGGGGGGGGCCCCAACCCCTTNG
 GGTTTANGGTTGGGTTCCCCCCAAGTCNCCTTACCCCTTCTTTCNCACCANAAGGGGGGG
 GAATTTTTTTNGCCCTTGTAATTGGGGGGGGTTTTCCTTTTTTAAANGAAAGGCCCCNTTT
 TTAAAGNCCCAAAGNCCCCCCTTTGGGGGNAATTTGGGGGGTTTGGGGGGGGCCCCCAA
 AGNAAAAAAATTTAAANAAAAGGGGGGGGGAANCCCCCAAAGTCCCCCCCCCTTTTT
 TNCAAATTTGGGGGGGNTTNGGGGGGTNGGAACCCCGTTTGGGGGTAAAAGGTTTCCA
 ANCCTTTTGGGTNNAAAANGGGGGGGGGGAAAAACCCAAAGAAAAAAAACCCAANTTTT
 TTTTTTTTGGGNTTTNCCCTTTTAAATTGGGGGGGGGGGGGTGNAAGGGGAAAAATTT
 ATTTTANNTNAACCCAAGGGTTNGGNCCCCCCTTTTTTGGGGNGTTNGGCCCGTAAAGGG
 GGGGGGAAAAAGGGCCCAAAATTTTTGGGTAAANAAAAAAAAGGGGGGAAAAACCTTT
 TTGNCCNCCCCCTTGGTAAAGGCCCAANCTTTNCCCCCTTGGGGGTNTNGGNCCCAA
 AAGGGGGGTNTCCTTTCCCCCNANNCCCCCNTTNGNCCCAAACCCAAATTTTTTGGGGG
 NGGTTTTGGGGGGGGGGGGGCCCTTCCCCCTTGGGGNGNGGGAAAGGGGGGGGGGTAAAN
 GAAACCCCTTTCCAAAANGCCCCCCTNTTTTCCC

Sequence 5241

AGGTACGCGGGGTCTCTGGCCGCTCGCTGCGTGNGTAGTAAGTAAGGGCCCGTAGTATG
 GGCTAGGTATGGATGTAATTTGGCTCCATAGNGTCCTTCAAAGNGGTTCTGTCTTNCNGT
 CTCTNNGNTTGGGNCCGNACCACCGTAATNCTTTNTGGGGGGNATAGGNAATNCAATNCT
 CCGGCTATNGGGGNANAAANTATCCCCAAGNCCCCCAAAAAAATTCAAATTTTTTTTTT
 TGGGAAGGGGGAANTTGGGAACCCCGGGGGTTTGGNCCCCCTTTTTGGGCCTTTTTTTT
 CCCCCAATTTGGGAACCAANTTTTTTNTNCCCCCCCCCTTCAAAAAAGGGCCNAACCCC
 CAAAACCCAAACCAANTTTTTTCTCTTNGGGGTGGGNANTAACCCCCCANAAAGGGAAAAA
 ACCNATTAATTTANTTTCCCCCAANNAATTTNTTCCCTTNGGGTNGGGGGCCAATGGNAAA
 NGGAAATTGGNAAATNGGAATTGGGAAAAAAAAGGTTCCNTTTTCTTNTNGGGGGNACC
 CAACNTTTTTAAAAAATTTGGNAAATTTNGGTTTTTGGGGGNCCNANAAGGGAAAAAAA
 ATTTGNCCTCGGCCCTTGGNCCNTTGGGAATTCCCTTGGGGGGNGGCCCCCCTCGGNTAAA
 AAATTAAAAAAGGGGGGGNGGTTTTTTTAAATTTTNCCGGGAAAAAANTTGGGGGNGTTGG
 GGGTTTTGGGAAAAATTTGGGNAAAAA

Sequence 5242

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATGTNCATTTTGGGTGGTTATA
 GNGGGTCNNCCATATACNTGGNCNTGGTCCGTATANCCAGATAAGTTGGGGTTNGTAATT
 AGTCCGTCCCCTTAAAGTCCATTTANGNTGGGTTTTAGTAAGNTTTTTGGGGTATTTTAN
 GTTGGGGGGGCCTTAATTTTTTTNCCCTTGGCCTTAAGGGGGGGGGGGNTTGGGGNTAAAA
 AGTCCCCCGGGAATTTGNTAANTTTNAAAAATTAATAAGGAAATTTCCCCCTGGGCCTT
 AANCCAAAACCNNTTANTTTANANTTTGGGCCCTTTTTNGNAAAANTTTGGGGGCAAAAN

Table 1

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TTAANNNGGGNCCTTTGGAAANNAACCTTGGGGGGGGNTTGGGGGGGGGGGGCCCCCTTT
 TTCCTTAAATTGGGGGCCNTTGNAGAAAGNGGGGGGGNTAAANTTTTCAANNNGGGGGGGG
 GTTTGGGNGGGGAAAANAACCCCCCTTAAAAATTTTGGGGGNGGCCCNNTTGGGAANATT
 TTTTNGGGCCCCCTTGGGNCCTTGGGNCCTTGGGCCTTTAAGGGGGGNAAGGGGGGAA
 AGGGGGGGCCCCCTTAAAAATTTAATANTNTTGNNGGNGGGGCTTNGGAAAGGGGGGGCCCC
 TTTTNGGGGNAAATTTTNAACCCCCCGNTTTTTTTTAAAAANAAAAAGGGGGGGGGGC
 CCTTANATTTTTTTTGGNTTTTTGGGTTTGGGGGGGGGTTTNCCTTCCAATTNGNAAAAA
 TTTTGGGGGNAAAAANTTTGNGTTTAAAGGGGGGAAAAATTAA

Sequence 5243

AGGTACGCGGGCTCCTACTTGGNATAACTGGTGGGTATATTCTTAGGAGCTTATATACNA
 TGGTCNCGGACCGGGGGTCCGNCNTGGTACNCNCTCNCNTNTTCGGCNGNGTGGGNGNGT
 GTAATNGTCCGCTNGTCCAATTTTTTATTCAANGATGCCANANANAACNCCATANCTCNC
 NGNGGTTCAANGCACCTCTTNCCTTTCNCCGGGGCNCNCCCCCGGGGGCTCCGGCATTCCT
 NAAGNAAAAACCTTAANNNTGGGGGGGAATTTCCCCCCCCNCCGGGGGGGGGCCCTTGGCCNA
 AGGGGGGAAAAATTTTTCCCCGGAATTTAATTTCCAAAAAGGCCCTTTTTAAATTGCCG
 GNAATTACCCCCGGTNC CGGAACCCCNCTTCTGGAAGGGGGGGGGGGGGGGGGCCCCCCCCGG
 GGGTTTAACCCCCCNAAAGGCCCTTTTTTTTNGGGTTNTTCCCCCTTTTTTNAAGNTT
 NGGGAAAGGGGGGGGGTTTTTTAAAAAATTTTGGGGCCCCGGCCCCGNCCTTTTTTGGGGGG
 GCCCCGGTTTAAAAATTCCAAAATTNGGGGGGGTTCNNAATTTAAAAGGCCCTTTGGGG
 TTTTTTTNCCCCCTTGGGGTTGGGNTTGGGGGAAAAAATAATTTTTGGGTTTTTTAA
 TTTCCCCCGGCCNTTNCCAAACCCAAAAANTTTTTNTCNCCAANCCCNAAACCCAANNA
 NCCCNAAATTTAAACCCGGGAAAAAGTCCCCCCCCGGGGGNGNGNAAGGGGGCCCAAATT
 AAAAAAAAAAANGGGTTGGGGGGTTGAAAAAAAAGGGCCCCCTTTNGGGGGGGGGGGGGGG
 TTGGGGCCCC

Sequence 5244

CCGGGCAGGTACGCGGGGCTCCAAACTTCACCACCTGGCCCCGTGGGGTACCCTCTTGGT
 TGTTNCAAGTCTAATGGNTGGNNGGTACTCCTGGGGGTTTTCTTCTTNCCTCATTCGNC
 TCCTTTGGTTCTTGGGTNGGGNGNGGTNGTCCACCTGGTGTANANTTATGTCTCAAGNGG
 TTCTTTGGGTCTTGGGNGGTTCGNGTCCATCCAAAACTCCTTGGTTTTTTTNGNAAGG
 NCCCCCTTGNGAAAAGGNACCAACCCAAGNGGCCNCCAAGGTAAGGGGGGGTNNCCCCCCC
 TNGGGTTCCAAAGGTCCCAACNCAAGGNCNTTTTTTNNCCNAAACNAAACCCCCCCCCGGG
 TTTCTNTAACCAAAAAATTANTTGGAANACCNCTTTTTCTNTTGGGNAAAGGCCCNAAAT
 TCTAAAAAAAAGGGCNCNCTTTTNAAGGGGAAACCCCCCAANGGGAAATTTGNGAANAAA
 GGNAACCCCTTTCTCCAAAGGGCCNCCCAAATTTGGGNAACCCCCCTTTCAAATTT

Sequence 5245

AGGCCGAGGTACCTTGCTGACTCAGCTACATACATANAGGGCCTCAAAGNCCTNTNGTCT
 TAGCGCAGGTTTCTTTTAAATAAGGGGANACNTGGGTGGGTGTTCTTCTTNTTTTCAAC
 CTTTTTTTGCCTGGGGTCNTTTATTGNGGGGGNCCAGGTATGTAAGGGGGGTTTTNCCC
 GNACTCCTTCCATAGAATGGGCNCCANACTTAACCCCANNGGGTTNAAGGGGGGTTANN
 GNAAAAGGGGGAACCCCTTTTTAAGGGGCCCTTTCCAAAAACNNTTGGGCCTTGGNGGCC
 TTTTCCCCCTTTCGGGTTNAAANTTTAAAACCCANCCAAACCCNAACCTTNNGGNTGAATT
 TTTCTTGGNTCGGGGTTTGGGGGGGTGGCCCCCAACCTTTCCTTNGGCTTTCTTGGCCC
 CTTGGNGTGGNNCCCAANTNGGNTTCAAACCCCTTTTTTNTNCCCTTNAAAATTTGCCCCA
 AAGGCCAACCAATTTCCCTTNNGGNCCCCCCCCCAANAANGGGAAAAAAAACCCCCCTTT
 AAATTTTTTTTTTNGGGGNGGGGGGTTTTCCAAATTTTTCAAATTTNTNCTTNANCTTTGC
 CCTCTTAAATNTCNTNCCCTTGCTTACCTTTTTTAAATCTTTCCGGGTTTTCTTNGGAAA
 NTGGNTTTTTTTTTTCCNAANNNTNTTTNGGGGGGA

Sequence 5246

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCGTCACTTACTCTTC
 CCTGGGGTTCGGGTGTAAGNTGTGTGTTTATANTTTTNTGGTCCGTCCGNCCCCCTNGNCA
 TNGTCTCTTNTCTNTGGGGGAATAGGTGGGGNTATGNCNCCGGTNTTTCCTTCCAAGG
 GNCCTTCCCCCTTNTTNCNGGGGNAAATTCGATAAAACCCCTCTTGNGATTNTCNCCCC
 CCCGTTTACNACCNCCCCGGGGGGGGGTTCAACCCCAATTGGGGGNTTAAGGGGGGCCCA
 CCCGGGGGGNGGGAACCTTTAACCCCAATTTNCGNAAAAAAGGGTTTGNAANNAAGGGG
 GGNCCAAAAACCCGTTTTTNCANAAAAATNGGGGGGNTTCGGTTCTTTCCNNGCTCCAACC
 CCCCTCGGGCNGATTAACCCCTTNGGCCCCCNGGGNGGNCGGGGGCNCCCGCCNTTTCC
 TTAAAAAAAACNNTTAAGGGGNGGGGGAANTTCCCCCCCCCCCCGGGGGGGGGCCCTTGN

Table 1

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CCNAAGGGNGGAAAAATTTTCCCGGAAATTTANTTCNAAAAAGGCCCTTTTAAATNCGGG
 AAANTANCCCCCGGGTTTCGGAAACCCCTTTTNCCTANAANGGGGGGGGGGGGGNGG
 GGGGGGGGNGGGGGNTAANCCCCCCCCCAAANGNCCTTTTTTTTTTTGGTTTTTCCCCC
 CCTTTTTTTTTTAAAATTTGGAAAAGGGGGGGGGTTTTTAANAATNTTTGGGGCNGCCCG
 GNCCTT

Sequence 5247

TTGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGTGGTGGTGAAGCTGTAGCCGCGCTCGG
 TGAGGATCTTCATGAGGTAGTCAGTCAGGNTCCNCGGTTCACTCAGGNTCCAGACGTC
 AGGTATGNGTCATTGGGGNGAGGGGCATACTCCCTCGNTAGTATGGGGCACCAGTTGGTG
 GGGGTGTACCCNCCGNTTCACCCGGGTAGTTTCCCAATTCCANCGGAATGGCNCCAAGTT
 GGGGNTTANCCCCNTNGCCCCCGGGGTCCGGGCCCCGNATTGGTTTAACCTCCCTNCGT
 TCCCGNTTTTTTCGGCCCCCTTTCCAAGGGGCAATTACCAACNCCGGGAAATTGGCTCAAG
 NCCCTTTGGGNCCAANATTGGGGCCAGGCTCCGTCCCGGCAATGGGGTTCCCTTGNGGGG
 TNGGTANGGAAANGTAATTNGGTTTGTCCAANTCCTTNGGNACCNCAACCTTTGGTTAAC
 CCTTTTTAATTCNAACTCNCNAANTGGNTTTGGNAACCGTAAGGGGGG

Sequence 5248

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCAAGGCAGGCT
 ACTTCCATGGNATACAGTGGGGGGNAAGGNATTANATANAAGGGGCTTTCAATNTGCAAG
 GTGCNCAAGGCGCCGGTGGGACCCTTGGTGANANATGCGCAAGGCCTTTGGCTCCCTGCT
 CCGTCCAACNCCCCAACTTGGGGGAAAAAAAAAAAAAAAAAATTTCCCAAAAAANCNCTTN
 TNTNTTGGCCACCCCAAGGTGTTTTNTNTTTTNAACCAATTGGGTTCGGCCTTTTTTCT
 TTCNTTAACCCCAAAGGGGGGAAGGNAAATTTTCNTTTTTTTGGGCCCGGTTTCAAATTC
 CTTAAAGGNAAATNGGAAAAANCCCAACCCCAACCTTNGGGGGGACCTTTTTTAATTAAT
 TAACCCAAGGCCTNGGGGGGAACCAATTGGGAAAAAAGGGTTAAAAACCCCCCAAAATTT
 TTNTNAAAAAGGGTNGGGCCCCCTTTTTNTNTTGCCCCTTTTTNGCNAAAANCCCCAAAA
 TNTTTTTTTAAAAAAACCCTTTTTNCCAAAGGNAAATTTGGGCCCTTTTTTAAAAANGGG
 GGGGAAATTNGGGAAANTTCCCGGGAAGGNCCCCCAACCCCCCNGGGAAATTGGGGTTT
 CCCAAAAANCCCCAAAAAATAATTTAAATTTNCCCCCCTTTTNTTNAACCCCCCTT
 TTTTTTTAAAAAATAATTTAAAGGGGTNTTTTTTTTTTTTTTCTTTTTTTTNAAAA
 ATTTTTTTAAAAAANGGGTTTTNTTTTAAAAAAGGGNAAAAAAAAAAAAACCCCCCTT
 TTAAATTTTTTTAAAAAACCCGGGAANGGGTTGGGGAAATTTAAATTTTTTTAAACCCCC
 CGGGGGGGGGGNAANAANAAGGGGTTTTTT

Sequence 5249

ATGCTTCNACAACCTTGGGANAAANANANATTNACCTTNATAACCATCNAGGCNTGCATGA
 TNATTAAAAAATTTAACCTTTGATTCTTATNAAAAGGAAANCCAAAATNTTAATTAGGAA
 AAGGGGAAAATTCCTTAAAAAATTGGGGGGGGGGCCANAATTTTTTTTTTTAAACCCAAN
 AAAANCCCCCANGGGGGGCCAAAANAAAAATTTAAATTTCAANCCAAATTTAANTTTAAC
 CCCCCTTGGGAAAAAATTTAATTTAAAAAGGGGGGGNTTAAAAANCCCTTTCCCCCCAA
 AGGGGGCCCCCAATTTGGGAANGGTTCTTTTAAAGGAATTTTAAAGGGGGCCAGGTTT
 TAANCCTTTTTTTNAATTTTTTTTTTNGGGAAANCCAAAAGGGGGGANAAGGTTGGGGGGGCC
 CANTTAANAAGGGCCCAAACCCNTTCCCAAAGGTTGGGGTNGGGTTNGGGCCCCCCCCC
 TTTTAAANGGGGGGGGTTNGGGGGGGGGGNAAGGGCCCCCTTCTTTTTTTTTTCCCAACC
 CAAAANCCNCCCAAACCTTTTCTCCNCCNAACCCCCCCCCCAAAAAGGGGGGCCAAAT
 TTCCNAATTTNTTTTTTTGGGGGGGAAGGNAAAAANAANAANAANGGGGTGGGGTT
 NCCNTTTTTCTNTTTAATTTCCNTTGGGGGGCCCTTTAAAGGGNCCCTTGGGGGGTGGG
 GNTTTTTAAATTNCCTTTAAAGGGGGGNA

Sequence 5250

CCGGGCAGGTACATCCCTGGCCTTTTGGCATCCAAGTTCTGGCATGTAAGGGTCTNCTTC
 CCAAGNACCTTCAATGGGGGGGGGATTGGGCCGNAAANAACNCCCAAGNCTTTTGGGGGT
 CCNCTTCNCTNCTTAGNCCAATTCTTGGGAAAGNCCAAGNCCTTTCCCTTCCCTTCCGGG
 TTTCAANCCGNTTCCGGGTCCGNGGGTAAGGGNAAGGGGGGNAATTANGGTAAGGGGGGG
 GGGGGGAAGGGTNGGGGCCCAAGGGAAATTGGGTTTTTGGGAAATTGGAAAAAAAACC
 CCCTTTTTTCCCCCTTTTTTTTCCNAAAAGGGGGAAAGGTTTTTNGGGGGTTTCTTTTTTT
 TNAATTGGGNCCAAGAAAAAACCCCAAAGGGGCCCTTTGGAAGGGGCCTTGGGGGAANTTT
 TTGGTTGGTTCCCGNAAATTTTCTTNGGGGGTTCCTTGGGGGTTTTTTGGGTTCCTTGGG
 GGGGGCCCTTTTGGGCCTTTGGGGGAAAGCCCTTCCCCCTTTTTCCGNAAAAGGGGGCC
 CCTTGGNCCAAGGCCNAAAGGNCCAAGGNCCTTCCCCCTTTCNAAAAAANTTCCGGG

Table 1

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CCCGNNCCCCCGNAAAAATTTCCAAAAGNCCAANCCCCCGGNAAATTNCCCGGGCCC
 CCTTTNTCCCCGGNCCCCCTTTCNNGGNCCNTTTTAAAAAGNCCCCCCCCCCCCAAATTTT
 TNCCCCCCCCAAAGNCCCAAANNCCCTTTTTCNNGGGGGGGTTTTTCGCGGCCCCCAAT
 TTGNGGGGCCNCCCCCTTGGGGG

Sequence 5251

CACATTCATCCCAAGTAAGTATGNGTCAGTAGNCTTTNCTGCGNCAACATGTATTTATCT
 TGGACATGNGNAAGNCTTGATACAGGTATGTTCTCCTCCTNTTTTGAGAAGGAANATATT
 TTTCCAANACTTGGAAGGCAACTGGAAGGAATACTTAACCTTTTAAAGGCCAATTTGG
 AACCAGGAAAATTCCTTCTTTCAATTGGGGGAAGAAAAGCCCCACTTATNGTNGCAATTT
 TGGCTTTTCCCATGGGGTCTTCCCCTGGGNAAAANTCTAATTCTTTTGGTCCTTTGNCC
 TTGGTTNCCCCNNGGNAAATTATGGGGAAAATTNATNAAGGCCCACTTGGGGANGTAAG
 TAAAAAACCCNCGGCTAGGGTTTAAATTTT

Sequence 5252

ATCGACTCACTATAGGGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATT
 ATTCAGTTCCATTGTAATGTTCCCAAAATGAATGTTGTAGGATNTGATGATATNTGTGTN
 CAAGGAAAAGGGGNATNTTTGTTTNANANCCAATTCNTGGNCCTAAGGGGGCCTTAAATT
 TTCCAATTCAATTGATTTTAGGGTGATNAATGGGAAAAAATTTAATNCCCTTTTNTTCTTC
 CCAAGGTGTTAATTTNTTAATTAATAATTGCCTTTTNTTCTTAAAAAAATTAANTTT
 TTTNTAAAAAAATTAACCCAAGGGTAAATTTANTTNTTTTTCACCCAAAACCCA
 AAAAAANTTTTNTTTTAATTTTNTTNNCCCCCCCCCAACCCAAACCCAAANANNGGAAA
 NTTTTTAATCCCCCAACCCCTTTTCTTCTTAAAGGNTTAAANTTTTTCCTCAATT
 TCCGTTNGNCCANAGGGGAAAANTTGGGTAAANGGNAAAAATTTAATTTAAGGGANCCTT
 TAAAAATTNAAAAGGGCCCCCTTNAAAAAAATTTAAGGGGGGAAATTCCTTTAAAAANA
 AAAAAAGGGGGGCCCANAAANGGGGTNTTTAATCCCCCTTTAANANNAAAAACCCC
 CCCCTTTTNCCTTTTGGGGTTTCTTTAAAAANCCCCCAATTNAANTTTTAAAAAAG
 GGGGGCCCCCCCCAAAAGGGGNTTTTTTTAAACCCCCCTTNAAGGGTAAAGGGNTTC
 CAAACCCAAAAAATTTTGGGTTTTAANGGTTTTTTTAAAAANCCCCAAAAGGGTTGGGNC
 CCTTAANTTTTTTCTCCTTTTNGGGGGGNTTTTGGGG

Sequence 5253

AGGTACTTCTTGCCCTTGTAAGAATTTCTGGAAGGGTTTTCTTTCTGAGTCTGGGGTNTA
 NATTATATCCTGGGTNGGAAGTANAACCANCCGGGNGGGCNATANTGGNGTATTTTGCC
 CGGGTACCGNAACNTGCNGGGTATCTTTAAGTAAGTAAGNCCTTTGGGGTAAGGGNCTC
 CGCNACTCCGGCNCCTTGGTNCCACNTTTTGGGGGNCCGNGAACCGTCCCGGCCANNTC
 CTTGNGGGGGGAACCAAGGTCCTTTCTCAACCCCNCTTTTCNAAGGGGTTCCTGGTTTNC
 CCAAAGGCCCTTGNTTTTTTTCNAAAGGCCCAAGGCCNTTTCCCCCTNCCCCNTTTTCT
 TTTCTNTTTCCCCCGGCCGGNAAAAAGAAATCNTTTCGGNAAGGCCCTTNTGGGNATT
 CCTTTTGGGGGCCCAATTTTGGGCCCTTGGGCCAACCNAAAAGGGCCCCCGGGCNCCAA
 NAAACCCGGGCCNCCCGGTTCCTGGNCCCCCCCCCGNGCTTTNCNCCCCCCCCCNCCCGGN
 CCGGGGTNAANCCCCCTTGNCCNCCCCCGNGGGGGNNTCCCGGGGNTCTCCCGGG
 CCTTTNCCTTTAAAGGNNAAAAANCCCTTAAAGGNTTTGGGGGGNAAATTTNCCCCCCCC
 CCCCCGGGGNGGGCCCTTTGGGCCCAANGGGGGGGAAAAAANTTTTNCNGGNAATTTA
 ATTTCCNAAAAANGGCCCTTTTAAATTTCCCGGGAATTTNANCCCCCGGNTTGCTGT
 NAACCCCTTTTCTTTAAGGGGGGGGGGGGGGGGGGGGGGCCNCCCCCCCCGGGGGGNTT
 GAANCCCCCCCCAA

Sequence 5254

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGAACATGGGGNAAGTTCTTCNACGT
 CCAATTCNATCTCCAAGTGTGTCNTGGNGTAAGNTGGTCAAAGTTNGGGTCGTCNCAATTCT
 TTTGGGGNCTTNCAACTTGGCNAAAGCCCTTCNCGGCTCTTCGCCAATGGGTTTTCAAAA
 AGGTGGGAATTCNCTNCCCTGGGCCCCCTTCAAAGTCCCCTTCNCTTGGNAAGGTTAAA
 GGCCNTTGGGGGGGGAAACCTTAAACCAAGGGGGGCGNGGCCCCCCCGGNCTCCAACNNC
 CAAACCGGNCCCCCNAAAGNCCTTTAAATTTTTTTTTTTTTTTTGGGGTAAAATTTT
 TTTTNAAGGGTTANNNAAGGAANCCCGGGGGGGGTTTTTTTTCCGGCCCCCAAATTG
 GNTTTTNAAGGGCCCCCGGGGGGAAATGGGGGGTTCCTTCCNGAAATTCCTTTCCCTT
 GGGGAACCCCTTTTNGGGTNGGGAATCCCCCAACCCCCCGGGCCNTTNTGGGGGGG
 GTTTCCTTTCCCCCCCCAAAAAAGGNGTTGGGCCCTTNGGGGGGGGGTAAATTTTAAAC
 CCAAAGGGGGGNCCNCCNTTGGNAAAGGGCCCCCAAACNTTGNNGTNGGGCCNCCCCCN
 AAGGGCCCCCCCCNTNAAATTGCCCCCTTCAAAAAAATTTTTTTTTTTTCNTTNAAAA

Table 1

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AAGNGGCCCAATTTNAAAANGGGGGGAAATTTTTTTAAAAAAGGGAAAAAGGTTTTTTTA
NGGTTTGGGGGGGGGNAAAAAAAAGGNCCCAATTTTGGGAACCTTTTANCCCCGGGGG
GTTTTTTTTTAAAAAAA

Sequence 5255

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGGGTAAGCATTAAC
AATATTATTCAAAATGTTATATAGAGTTCAACTGTATACAATAGAGCATTTATTAAAGTG
TGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGACAGGCGGCTCACTTGAGGTTAGGAG
GAAAGCAGACTGGCCAACATGGTGAAACCCCGTCTCTACTGAAAATACAAAAAATTAGC
CAGGCGTCATGGCGCACCTGTAGTCCCAGCTACTGGGGAGGCTGAGACACGAGAACCGCC
TGAACCCGGGAGGTGGAGGTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGCCTGGG
TGACAGAGTGGGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAANGTNCCTGCCCG

Sequence 5256

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGACATTGGTGAAGAAGAG
GTGGAGGAGGTTGCCTGGGGTCTGGGAGTTGATCTGCTCTTTGCTCCCGGTACCTATTT
CGGTTTTTGTCTTAGGAAGCTTGGCCACTCTACATGGGAAGTCACTAGCTTCATGTCGG
ATATCCTGGTAAATGGCCGCCAGCTCCCGGACTTGTCGATCTGCTCGAACTCCTTTTCC
ATCTCCATGACGGGCCAGGGCGGCTGCTGCGCCTCCTTCTCGGCCCACTGCGCCGTCTGC
CGCTCTAGGCCGCGTCTGCGCTCTTAGCCCCGAGGCCCGCTGCAATCCCCGTACCT

Sequence 5257

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCCGCCG
CCGCCAGATTCTGGAGGCGAAGAACGCAAAGCTGAGAACATGGACGTTAATATCGCCCCA
CTCCGCGCCTGGGACGATTTCTTCCCGGGTTCCGATCGCTTTGCC

Sequence 5258

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTCA
CATCAATCAGTCACTGAATGTGTGGCATTCTAGAAAGGGACATGACCTTGAGCAAGGGGG
CTGTCTACAGCTGAGGCAATCCTTGAAGGGGCTGACAGATGAAGATTGTCTGCAGAGAGC
CTTCCCTGCAGCTGGAGCAAAAAGTCCTTCATTGACCGTGAATCTGGACAGCTCATCTGG
TGCCCAGCACAAATATATTTTACTTTAGAGTAAATTTCTGTGGGGGAAGATGGACAATAT
ACAAGTTCAAGAAAAAAAAAAGAGATGACAAAATTTTGACTGTAAAGAACAGCATGTTTCAT
GTATTTTTTAAATTTGATGATGTTGAATAGTAAATAAATACAGTATTTAAATCCTTTGGA
TCAATNCANAAAAAAAAAAAAAAAAAAAAAGGT

Sequence 5259

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGCATGGTAGCCTCATG
TAAATTACGACATGGAGAGAGCTGGTGGTTTTACTTCTTTCTTTTCATCTGGTAAAAGGG
CCCTAACAGGCTCAGTCTCATTAGAG

Sequence 5260

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGG
GCTGGGGCACGTCACCGCCGAATGGCAGCCTCCAGAAAGCCACCGCGAGTAAGGGTGAAT
CACCAGGATTTTCAACTGANAAATTTAAGAATAATTGAACCTAACGAGGTGACACACTCA
GGAGACACAGGTGTGGAAACAGACGGCANAATGCCTCCAAAGGTGACTTCAGAGCTGCTT
CGGCAGCTGANACAAGCCATGAGGAACCTCTGAGTATGTGACCGAACCGATCCAGGCCTAC
NTCATCCCATCGGGAGATGCTCATNAGAGTGAGTAT

Sequence 5261

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCT
TGGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAG
TAGTGGGACTATAGGCACACACCACCATGCCCATCTAAGTTTTTGTATTTTATGTAGAGA
CAAGGTTTCACCATGTTGCCCAGGCTGATCTTGACCTCCTGAGCTCAAGTGATCTGCCCA
CCTCGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCA
ACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAGAACTCCATCACCGTGGTGC
TCTCTTTCTGATGTTGTTGNGCCCAAATAGCTTG

Sequence 5262

TTCACCAAGTAAATCNTTCACCACCGGGGTAGNAAGTAAGNACCCCCCTTATTGGGGCNTG
GGTGNATNGNAGNTGGTNGNAAGNAAAAAGNCCTTTACCTTNCTTAATTATTGNTCCTTG
GCACTTTTGGTTTAAAAACCATTTANAGGNAAGNAAATTAACCACCTCCAAATGGGGGGA
GGNAAAACCGGGGGGGGGGGGGGAATTTTCCAAGATGGNAAAAGGGTTGGNGGNAAAAA
AAATTCNCNTTTTCNCACCCAAGGCCAAAAGGGTTCCANCCAAGGCCTTTTAANAAGGT

Table 1

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TCCACCTTAAGGGNTGGGAAAAACCCAATTTGGTTGGTCCAATGNGGGGGGAAAAAAA
AANAGGNCCCCCNTTTGGGTGTTAAAANTTAANTTGGGNGGGTTAAAAACCTTNGGTT
GGGNGGCCNAAAAANTTNGGNGGNTTGGNGGACCNATGGGGGGGNGCCCAAAGGATTGGG
TTTGGGAAAGGGTTTTTTTTNGGCCCCCCCCAAACCCAATTTCCCCCTTTGGGNCCAAATTT
TTNCCAATTTGGGAAATTAAAAANAAACCCAACGGGNTNTTTTTGGGCCNTTGGGTTTTTT
TGGNAAATTTCCAANTTAATTTAAGGTCCCCCTTCCCCNAAGNNCNGGGGGGGGAAAAA
ATTGGGGCCTTTGGGAANGGGTTTTTTTTGGTTTTCCAATTAGGTTTCTCCCCNAATTN
GGGGGGGGCCCCCTTTTTNTTNGGGGCCTTTCCCCCCTTGGGCCACCCTTAAAAAATT
Sequence 5263

CCGGGCAGGTACTGTGCTGTTGGGCTTANAGGCTGCAGCGGCTCCAGGGGCAGGCTGAGG
AGCATGCAAAGAAGTTCCCATTTGGGCATCTGCCCTGGGGGTACTTTATTTTTTTTTTATA
NTTTANNTTTTTTTNAACTTTAATTGANAACGGGNTGNTATAATTTCTTNAAGAACANGT
TATAAAATNTTCATACCTTTTTTATTTGTTTTANACAAANTNTCTATATATTTTTTNCCT
NTTTTNAATAACANTGTATTGGGGTTAAACCCAAACAACCTGNGCTGNCANGCTTTTTTAA
ATACANAATTATCGGGCGCCNTTTNTTANCNTTNTCGNTNTCTAAAATAATTTTTTTCTN
ACNNNTTTCCATTNCGNAANNCGCNTTAACCTCCNCCCAANAATTNGATTGNTNTCTTT
TTTTTTTT

Sequence 5264

CCGGGCAGGTACACAGATTGGTATACACATATATTTCTTGCTCTGTCTGCTGAGAGGGC
CTAGATGCAGCAAACAGTGATTATATGTAGCACCTAGATCCTGGTTTCTAATAACCATTCT
TCCAATAGAAGCAACCAGGGCTCTTGGAGAAGTGGTCAGTTCTAGGACTGGAGTAGGAAA
TATATAAATTGAGCTTTGAACATATTATAGTGCCAAAAAGTAAAAGTGCTTTAAAAAACC
CCACAATGAAGGGGGCATGTCANAGGGACACAGGAGCCAGCTGAAGAGCTCCCAGTGGCC
CAAGCTGGAAGGAACATTTGAACAACAAAAATA

Sequence 5265

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCANGGTACAAAAAAA
CAAAGCTCTCTTTCTCTCTGGTGATGGTTTGGTAGGATTCTTTTGTCTCTGGAAGCAG
TGGGACTGAAGTTCTCTTCGTCTGTGCACAC

Sequence 5266

CCGGGCAGGTACGCGGGGCTTTCAGCGCCTGCAGGTTCCGGGAGGTCAGCTCCCAGCCGA
GGACGTGGATGTCATCGTCCTTGCTGCTTTGCCACCCCATTTCCCGTCAATAAAGTGATT
TGAACCCAAAAAAGTACCT

Sequence 5267

CTGACTCAGTCCACTATAAGCTAGACGGNCTTCTTAAAGCACCAACATTACTTGAGTCTT
TGGATAAAATTTGATAANAGGAGTCTACAAAGTTATTTGTGGACTCTACAAGGAGGCAAG
GAGGCTTGACAACCTGGCAGTAAAGACAAAGATGTCAGGCCTGCGGCCCGGCACTCAAGNT
GGACCCTGAGATTGAGCTTTTTGTAAAGGCTGGAAG

Sequence 5268

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTAAAAATGAAA
GCACCAGCTGGTAAAGTTTTCAAATAAAGACATAAATAAGGTTTGATATGACTCAGTGTG
GTATGTTCCCTCTCTTCCTAGGAACTGAAAAACAGAGTAGCAGCTCAGACTGCCAGAGA
TCGAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGACTTAGAAGAAGAGAA
CCAAAACTTTTGCTAGAAAATCAGCTTTTACGAGAGAAAACCTCATGGCCTTGTAAGTTGA
GAACCAGGAGTTAAGACAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCTGG
AAGCCAAGGGGAATGAAGTGAGGCCAGTGGCCGGGTCTGCTGA

Sequence 5269

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGCCTGGT
CGGGTGGCATGCTCGCGGCGCAGCTCGTCCATGGTAATGTAGTTCTTGTCCCCAGCCAGG
ATCTTGAAGGAAGCCATGACTTGGTCTGCTGTATCTGTGTGCGGCTGTCTCGCGGGACATG
AAGTCAAATTGAAAGGCCTGGAATGTCACTCCCGCGTACCTGCCCCG

Sequence 5270

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTAAAAAATGTGTTA
GATAATGGGAGGCAGGACAGAGAGAGAGCCAGGTGAGTGGGGAGTCACGCTGAGGCAGGA
CACAGAGGCAATCAGACTAGCATGTGGCGTTTCTATGGAGGGCAAGATNGTCANGAACG
GGNANGAAGCTTGCTGGTTCACAGCCCCG

Sequence 5271

CCGGGCAGGTACGCGGGTCCCCTGAGGAATTCAACCACAGACATTCTCAAGGAAACACAA

Table 1

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GAGAAATTCTATGGCCTACCATATGTTCCAAATACTGCCTGGCAGCTGCGATTCAAGNCA
CCTCGTGGGGTTATGGGTGCTAGGATATTACTTTCTTACCCTCATTTGTTCCAGAGNCGGT
TNGCCCTCCAATGGTTTTGGNAATNGCAGTNGTTTTTTTTTANCAGGTATCNCCTTTTCAA
ATCAGGGANCATGNCCNGGTGNGNAGTCGCNTANTCTTCAAGGCGAAGNATGTCTTGGTC
CNCACCTTGATGCTAGTGNCAGGGGTAGCCCCACTGACTCCATTGGTTTTGAAAGGGTTA
TGTCTTTTCATNTAAAGTTGTCCCCTATTCTTGGTATGGATAGANCTTTTCGGTT

Sequence 5272

CCGCGGTGGCGGCCGAGGTACCAACAGCCCCCTCCCTCCCAAGTTATGGTGAGCCCTTGG
GCCAGTGTATGGGCAGAAAAGCAGATTTGTGTCTTCAGAAGGGAAATGTAAAAAGGTGA
AAGCTCTAGTTGAAGGGCAGTGAGAGGGGCTTGAGTGGGAANAGAAGGTCTCTCTGGCCC
GGTGGTCTGGGTGCAACAAGGGCACTCTGAGAAGGCAGAAATGGAAACCGCAGGGCTGG
AGGGGCATGGGTACCTGCCCCG

Sequence 5273

GTATCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTGNCGTTCTACAGTCTCAATCGTGTATAGACTAATGAGAAAAA
TGAAAATGAGTTTCATTAGACAGACCACTTTTGTGGACTCAGTCTTGAGCTGATCAAAT
GAGGCAGCTGAAGTGANACTGAATCTTCCCTGTGATTAGCTCAACTCTTGAAGTAGCCAG
GCACAAATTAGCTGGATGTAGTGGTGCAGCCTGTAGTGCCAGCTACCCAGGAGGCTGAN
AGGCAGGAGGATTGCTTCCGCTGAGGAGTTCGGGGCTGCAGTCCCCGCGTACCACAAACC
ATAGTAACTTACACAGGGGGAAGTTACTGAAATAAAAATGTTTTATA

Sequence 5274

TCGCNNGGTGGCGGCCGCCGGGCAGGTACGCGGGGAGACAAAGGTGGCTTTGCTTTGNTG
AAGTTACTGATATAAAGATCAGCGCCTGAAACAGATTCTNCNGGATATTACCCNGAGACN
NGATGNGTTTTTTATTAATTAGGCCTTTCCCTTAANGNGGGACAATTTTNCATTTTTTGA
TTTACCANAGNTCCNTCTTTAGGGCCCTGTGGNCNCTGAGTTGNCCAATGGGCCCTTGTT
GAAAATTCNTCCAAGGCGAGCTCTTNGTGCCTAAGCGTCCTTNGTAGTGCCNCCTTGN
AAAAGGAATTCCAACNTTTNGCAAGNGGCCNAANGNNCCNCTTNTNGGGGAAGTAAAG
TCCAANCCCCCNTNGGGGNGNCCANAAGTGGNCCNGNGTNTTATATGGAAAAACNCATT
TTGGNTTCCTTTCTTTANNCATATGATAGANAANAAGAGGGGGCCGGGTGNCTTTGG
CCTCCNATTNCAATTTNTGNAATTNGGTTCTTCCCTTCNGGCCTAAGNAANAACCTCCANA
TAATTGNGGGCTAACCCCNCTTTTTTGGNCCCTTTTATAAGAACTCNTTTTTTTTTTGGN

Sequence 5275

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATATTTTTTAA
AACTGGTTAGCGATAGCTACATGACCCAATTATATTTTCTATATTTATTGATTATCAGC
CAGTAAACTCATAGTGAAGCAGCTGCGCACTCCCCCAACAATTGAGAATTGAACAAATTT
CCAGAGAGAAGTGAAAAATATCAAAAATTAATACTTGAAGACAAGTTGAGAGA
CCATTTAGTCTGGCCACCTGTATCCAAGATTCATTTAAAACCAAGCAGCGGCCAGGCACG
ATGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCGGAGGCGGGCGGATCACGAGGCCA
GGAGATCAAGACCATCCTGGCTAACACAGCGAAGCCCTGTT

Sequence 5276

NCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAGACATCTC
TTCTCCGTTGTCGGGTGCCGTCTCTGCTCCTTGTGGTTATTGCTCAGCCCTGGCATCCCC
AGGGGAATGGCAGCAGTGAGGTAGATGGGAGGACATTTCTGGTCAGGGAAGTGGCATCCC
ATTCAGCATCTCAGGACTCACAGGCCAACATGTGTTCCATGGCTGGGAATTGCCTACCAC
CCACATCAGCTTCTGTTTACCTTTTTTGGCATCAAATAATGAACAGTGTGTTGGAAATCTTT
CTACAGGCAATTACCTCCCCAAGAGAAGCCTTCTTATTTTGGAGTAAGGTCCTAAGATA
GCTGGATGAATCAGGAAAACCATGTCCCCTCTAGGTATTATTAATATAAGCAGGAAGGGG
ATCTAC

Sequence 5277

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAGTTCTCCTTTC
CTCATCAGGGCTAAACTGCTATTGTTGCTCAAGCCTGAATCGCTGTGAATATAGTGAAG
AGTGGAGTCCATATTCCTCACACTCCAGAGTCCAGATAATGTCACTGGCCCTCCGCAACA
TGGCCTCAAGTCCCGATCTTCTGCTCAGAATACTGTGTTGCTTGCTGCAGTGAAATGGTC
CGATCAGAAACAAAGCACCTCTCAACAGCATCGCTGATTAAAGGCACAGAATCTTCTTGA
TTTATTTTACAATTTGGTAGCTCATTTATATCCAGTTCATCTTGCAAATCACTTCTCTTT
T

Sequence 5278

Table 1

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CCNGNCAGGACNCNGGGGTTGAAAACCTTTGCTCATTTTTTAATGCGAAGGCTAAGTGTC
ACCCCTTTNTCTGCCTCTGGCTTGGCCTTGCTAAGGGCCAAGGAAAGAAAGACATTTTT
TTAGGGGGCAGGCCAAGTCCCAAATGCCAAAAGAAGAACAGTTTCTTGCCCCTGAATTG
TATCGAAAAATTTGACCATTCTGNGNCACCTTATTTTTTTTTTTATTGNGGCCCAATTNC
AGGAATATTGTCTTATNGNTTCCTTANAGGGACCAATTGGCCCTTGCNTTGTAAAGCAA
ATAAGTCNACCANNTTACCGTTNGGGTATNGGAATAAAATAATTNTATTTNCNCCCCAG
NAAAANGGCNAAGGCCAATTGGAACCCAAGGAAAAATGGGCCCNTTTCGGGGGGNNGNAN
GGCCANCTTTTTGGGGAAAAAGNGGGN

Sequence 5279

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGCTACTCACTACCTGGGAGGCTGTGGTGGG
AGCATCTTTTGAGCCTGGAAGGTCGAGGCTACAGTGAGTTGTGACTGTATCACTACACTC
CAGCCTGGGAAACAGACTGTCTCAAAAAAAAAAAAAATTAAACCAACAATTGGCTGCCTT
CTGACCTTCACATCCTGTATAGGAATGGAAATGGTGGCTAAAGTCAGCACTGAAGGTCCC
ACAAGCTCTCCCTGCCTCCCCCTCTATCTACTGCATGATCCTTCAACTGAGGCCAGCCCAG
GTGCAGANTAGCTTGCAAAACCCAAGGGACCCCGCGTACCTTN

Sequence 5280

NCGCGGTGGCNGCCCGCCCGGGCAGCGTTACAGGGTAAGTGCCTTTCGGGCAGGGCACA
ATGGGTTCAGTGCCCCATGACCTGGATACCTTGAAAGCACACCATTACAGGACAAGTGGG
GCCCCCAATAATCACCCCGAAGCANGGGTGCNTTTTTGCCCCCTTGTCCAGCCGTTCTT
NGNCAACACCAGGCCAATGGAACCTTTGGTTTCATCCCTTTTNTGNAAGGGGTGGAAANC
TATNGNNNACAACCACNACNNNTTAATTTTGNGGAAAAAAT

Sequence 5281

CCGGGCAGGTACGCGGGGAGGCCCTTCGACGGAGAACAACAAGAAAGGCGCTTCCGGTGT
CTGTTGCCAGGCGCGGGCCAGTGGGCCGTANGGGCGACATTGTTGCCGTCGTTATTTCC
CCCCCAGTCCCGGGGATGGAGATGTCGGGACTCAGCTTTTCAGAGATGGAGGGCTGCCG
TAACCTACTTGGCCTACTGGACAACGACGAGATCATGGCCCTATGCGACACCGTCACCAA
CCCGCCTGGTGCANCCTCAGGACCGCCAAGATGCTGTTTCATGCAATATTAGCATAACAGTC
AAAGTGCAGAAGAACTTCTGAGGCGTANAAAAGTCCACCGAGAAAGTTATATTTTAAGTA
CCTCNGGCCGCTCTAGAACTAAGTGGATCCCCCGGGCTGCAAG

Sequence 5282

GCGGGCNCGCCCGGGCAGGTACTTACTACAAAGCTTCCAAAGGGAAATTCNCNTATTAA
ATGGGATGGGCTCCAGAAGTCAATCAAATTTTCGAACGTTTTTACCTTCCAGCCTAGTGG
ACCGTAATGGGATGTTTTNGGGTGTGTGNTAATGGTTGGGGAAAGAAATNACCTTGGAATN
CCCATTTGGGNTGGTTGGAAAAGGNCCTTTTTTTTTCNAAAGGGGAGTTTGAAAANTTAACC
CAAAATTGAATTNGTANAATNCCGGGNTCCGNAAAATTTTGAAAAAAATGGGGNNGGTA
AAAAGGGANTTTACCCCCAAAATGGCCCCCTT

Sequence 5283

GAGCNTCCNCCCGCTGGTGGGCGGGCCGAGGTTACCAAAGGANGGTTTTTAATTTACAG
CATCTTCCCAACAGTGCAACTTTGGGGTGAATGNNGGACCCATTCTGGTATTTGNAGCAN
AAAATTTTTCTTAATGGGAAAGGGAAAGGGTTCCCTTCTGGCCAGAAACAAANNTACCA
GNAAGGGATTTTTTCAACCTTTAAACNACCTTGGNTAAGCCAANTNNTCTTGGGTATTGA
AAANTCNTTGGNGATCCAAATGGATTTTCNTTNAAGNTTCATCCCCCAAAGGGGGGGGCC
TTCNAATGGGNGGGCCCCCNACCNAATGGGCCCNANGGNAACCAATTCCCTTTTTTG

Sequence 5284

CGCGGTGGCGGCCGCCCGGGCAGGTACCCTGGTGTCTTCTGATTGGCACTGACTCCAC
ACCCCAATGGTGGCGTGCTTGGGGGCATCTGCATTGGGAANTTGGGGGTGCCCGATGC
TTGTGNGATGTCATTGGCTTGGGATCNCCCTGGNGGAAGTTTGNAAGATGCCACCAA
GGGGTGNATATTGGCTGTTGAAAGTCTTGAACNGGNGCCTNCNTCTCNTNTCCGCGNT
TTGGGTTCCTTNNAAACCCCTAAAANGAAATTGGTTGNAATTCCTTTGNAATGGGGTTG
GGNNTANGNGGCCCAATTCCTNTTCTACCGTGNTTGNANAAAAGNGGTTGGGNTCANCCA
AGGGGNTGGCCAAATTTCCNNTTGGGGTANAATTTAACTNCAAACNGGGGGACCCCTTGG
NGTTGGTTAANTAACNTTNCNCNATTCATTANCNTTGGCCANCNTTTGNGNCCAANTTGG
GGNCCGAACCTAAAATTCCTTNGACCAAAACCAATTNNGGGGGGTTTGNCNAANGAAAA
AATT

Sequence 5285

CGCGGTGGGCGGCCGAGGTACGCGGGGGCCTGCGCGGCTGTGCGTTGATGGGGAGGTCAG
GTCTGGGAAACTAGGCCCTGGGGTTTTCCCTGAGCAGGANCGGTGCCCGAGGGCACTCAG

Table 1

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GCNGTNAGTCCAGGCCCTGAATGGANTGGTCTCCANCCGGTTGGCGTCACATTNTNGCAC
TTGTGGGCGCTCTATGCGTCCCACANTAAGTANCANACTGGNAAGCATCTTAGTGGTTCC
CACCTCANGCNCAAGNCCAAGTACTTACTTAATGNAATCAAAGGANGACATCCTTTTCC
CAGTCATGTTCCANTTTGGTAAAGGGGGGCCATCCCTTGNAGGGGAAAAC

Sequence 5286

AGGTACCTGCCTGCTGGACCCCTCCACCTGGAGGCCAGCCCATGTCTCAGGCCAGCCCT
AGCCTCTTCTCCTCAAATTCTAAGTGTTTTCTCTTTAGGTTTCCCTGGCTTTGTGAATGG
ATCATGTGTCTCTAGGTATAAACCTGACATCATCTTTCACCCGGCTTACCTCCACCAGA
TCTCCCCAGTTCTGTCTCCATCTTCTACCTGCAGCTGCTCTGTTCTCATGGTCACTGCTG
CATCACTGAGTCTGGACCCTTGTTATCATTTTTCAAAGTGGCCTCCACGCCCTGCTCCCTC
CTCCACCTCCCCATCCTCTTGTCTCCCCCTCCCCTCTGAATCCAGCCCAGCGGGGCTTCTC
CTGCCTCCATCACATCACAGAAGTCC

Sequence 5287

AGGTACTCCTCCATGGCGCTGGCGTCTGGCCGCGCAGTCAGGCCACGCCCCCAGCGTAGA
CGCACACCGGCGTCGGAGCTTTCGCCTATTACCGGGCAGCGATTGGGTCGNTATACCGC
ATGTCACGCCAAGGACGCACTCTCATTGGCCAATCGAGTTTCTTGCCATTTGTTTATTGC
CTCCTGAGCGTAGTCCAGTTACTTTCAGGCTCGGGGAGTGAAGGCCTCGTTGAGAGAAGG
TCTCATTCGGTGTTTTGGGAANAGAGTCGTGTGGGCCCAGGTATCNTANCGGCNACACGA
GAGAGACGGGCGGTGTGACAGCCTTCCACTACCTGCACGAGTGTATTGGTCT

Sequence 5288

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGTTGACCATCTTTGCAGCAGGGCTGTTTTGTC
TATATGATGAAAACGAGAAACAGCGCCCGACACCTGGCCCTTCGCAGCTCTCGCCTTTTCG
CAGCTCTCGCCTAACAGGAAAGGGAAGAAAGAGCCCCGCGTACTTTNTTTTTTTTTTTT
TTTTTTGCAAATGACTTAGATTTAATCATCGGAAGCAAATAAATGGAAACCTTACAATA
GAGAAGAATTACATGTGAGTGTCTTTTGGAAACTGAGCTGGGACAGAAAGGGACTGGGG
GCTGCCCCCAACCTGATCCCTTNTGAACAAAGACGTCCACAGTGTTTCTGGCACTCTGG
CTCAGGAAAAGGGGAGACTCTGCTGATTCTGTGCATTG

Sequence 5289

TACCGCGGTGGCGGCCCGCCCGGGCAGGTACGTTGACCATCTTTGCAGCAGGGCTGTTTTGTC
GGGGGAATGCTGGAATTTGTAATGGGTNTGGAGACATATCATATAANTAATGCTAAGGGT
GAGTGGTACGGAANTTTTTTTTATAAGNGAGNGTATTNAAGTTTTGGTCCGTTANCCGG
GAAANTNCGGGGGGTGTNATTGCNTTGNCTTCCGAAATTTCCATTAAAAGAAANACCAGGG
GGTAGGGNTTTNAANAAAAGATAAGGGGGTTTCTTTTGGGGTTGNNACCAACAAAAATTT
NTTTGNTTTTGCTGGTTTAAGNAAAGNTTTTCCAANTGGGGGGGAAANAAAAGTTTGGC
CCNTTCCCAATTAAATTTGNGTTTTGGNTTTTCCCCTTNAAGGGGNAAAAAGAAATNTTT
GGTAAATTTTGGCGTTTGGAAAGGGGGGGTTGGCTCTTNTAATTTTAAATTTNACAATTA
ANAATTGGTTTTTTCGGGGNNGGGGTAAATNTTTCNNGGCCCTTTTTTTNGAANAAAGCA
AAATTTTATGGGGGNTCTNAAAAAGGNGGGGGGGC

Sequence 5290

NCNGCGGTGGGCGGGCCGAGGTNCAGNTTTTGTAGTTTGAGAAGATNAAAAAGTTCTGGAG
CTGGATGATGGTGTGGTATGCACAACATTATGAAANGCACTTAATACCCACTTGAAACT
ATATAAGAACAGTTTANAAATGGACCANCATTTTGGTGTTTATTATTTTAAACNCACCA
AATTAAAAAATGGTTTNTTTGAATTAAAA

Sequence 5291

AGCCTCCACCCGCGGGTGGGCGGGCCGAGGTNCGGCGGGGGCAAATGCAAATGCAAAGT
TTGACCAGAAAGTCCGGTCACCATCCAGGGGAGACTTCCACCTCTCATCACCCAGGCTC
AGNNCCAAAGCTTGATTGAGGGACAGACCAGCTTGAAAATTTGNGGTTGGGAAGGGAACC
CGTTTCTTCTGNTCCCCCAAGGGTTCCCTTGGTCTTCTTGCCAACCAAGGAAAAACNT
TTGGAAAACCTTCCCCAAGNGGNAATGGGGGAAAATTTTCCCTTTTCCCCTTCCCCTTTCC
TTGGCCCTNNGGGGGGNAACNTTCNCCTTTTTTGGGCCAANTTGGGGGACCAANGGGGGG
GCCCCCNTTNCAAATTCCCTTTCCAACCCCTTTTCCCTTTTCCGGNCNAANAAGGGAAAGG
GGNGGTNNCCTTTCCCTTTTTNTTGGTTTTTTTCCAAAAATTATTATTTTCTTATTATTTT
TTTAAATNCCNTTAAAAAAAATTTGGGAAATTTTNGGTTNGGNCCCCCTTTCCNTTGG
GGCCCCCCCCAAAAGGNCCAAGGGNCTCCCTTGGGGGNAAAGGAAACNTTTTTCCCCTT
TAAATTGGGTTGGTTNGGCCCAATTTTGGNGGNGGGGGTTGGGGGGGGGGCCTTTTNG
GGGGGNGGGCCANCCCCCAATTGGTAAGGNAAAAGGGGGTTTTTGGGG

Sequence 5292

Table 1

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AGCCTCCACCNGCGGTGGGCGGGCCGAGGTACNCGGGGAGACGGAACCTTCNGCACGCTG
CCTCTGTTCTCAGCTGTCAGTGCCGCNCACTGCCCCGCCAGAGCCACCGGCCAGCAT
GTCCTTCTACTCACTTCAACCGAGGCCCTGCCTACGGGGCTTGTCAAGCCCGAAGGATTA
AANGAAACCAAAGCCTNNGNCCCCANTAAAAGTTATTGTAACCTCAACCCATTTCGGGTGTA
GNCNAGTGTAGGCCCTGGNAGNNAGTAAGATGGGGTAATCCGTAAGNGNGGGGTNNTGGA
ACCAAGGGTCCGCCGGTTTCTGACCAANTTTTGNNGNTANAGCCAAAACCTTTTCCAAT
TGNGGTAACCAGGGTTTCCTTTCTAAAANANGNAATNTGGGGGCNAATTTCCCATTTTT
TCCTTNTTTGGNCCNGNAANAATNTTCTAATTCNAAAATTAAGAAAGTCCTTGGGNCT
AACGGNCCCAATGCGTACCTTCCCCGGTTNGGTAAANAGGAAAANNGTAAATTCCAAAC
TTGGNAAGGGTTACTAAANACCCNCNANAAAAAATTTNTGGGGGCCCAACCNCCAAGNC
TTTNGGGGTNAGGTNAAAAACNANNTNCNGTGGTCAAAAACCTTTTT

Sequence 5293

CGCGGTGGCGGCCGANGTACTTTGTNCTTTTTTTTTTTTTTTTTTTTAAAGACAAGGTC
TTGCTCTGTTGTCCAGGCCTGGACAACACANNATGTNCAGTGGTGTGAACATGGNTCACT
GCATCCTCGACTTCCCAGGCTGAAGNGATCNCCTCCCGTCTNAAGCTTTGGAGAAGTAGC
TGGAACACACAGNGTGTGTTGCCACCCNTGGCACCAGCATAGNTTNTTTAAACTTTTT
TTGGTAAAAAATGGGGGGGTCTTGGGCATGGTTGCCCAAGGTCNTGGGTCTTGGAAA
CTTTCTTGGGGGCTCAAAGNNCGGATTCCTTCTTGGNCTTTGGGGCACTTCTTCAAAA
GTTGGCCTTGGGGGNATTTNACCAAGGGGGCCGTTNTAGGCCCAACNNTGGTNGCCTTA
ACAACNCAAAAAAATTTGGTTTTNGACCAAAAGGGCCTTTGGTTGNTNGNCCAAANCCCCT
TGNAAAATTTTGGTT

Sequence 5294

TTATATGTGGATTTTTTAACATATGCAGTGTGAGCACCCCAACACTACTCAAGGGTCAACTG
TAAAGTATTTTTTTAATCCAAGAATGAACAATGTNTTTCAAAGACATAATGCTATTTATC
ACNTTAACATTACTTATAGTTGCAACAATAAACCTTTTTATAATGGCCATTANGGTAAA
NCCATAAANTATTTCAATGGTGNAACCTTTGNCTTTTTTAATAT

Sequence 5295

AGGTACAGTAGTGCACCTTGGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCT
CCTGCCTTAGCCCCACAAGTAGTGGGACTATAGGCACACAGCACCGTGCCCATCTAAGTT
TTTGTATTTTATGTAGAGACAAGGTTTCACCATGTTGCCCAGGCTGATCTTGAGCTCCTG
AGCTCAAGTGATCTGCCACCTTGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCAC
CATGCCTGGCCTTAAATCAACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAGA
AACTCCATCACCGTGGTGCTCTCTTTCCTGATGTGTTGTGCCCAAAATAGGCTTTGTTCT
TCATCAAGATGACTTATT

Sequence 5296

CCGCGGTGGCGGCCGAGGTACAGCCTTTCCGTTTAGTGAGGTTCTACTAAAGGGAATGCC
AACTTTGTGGTTGACATGGGTGATCCTTGGGTTTCGTACGCATGAAATTAACAAATAAA
AAATGTTCAAGGCCAGGTGTGGTGGCTGATGCCTGTAATCCCAATGCTTTGGAGTCTGAG
GTGGAAGGATTGCTTGAGGCCACAAATTTGAGACCAGCCTGGGCGAAAGAGCGCAACCCT
GTCTCTACCAAAAAAACAACAACAAAAAATAGCTGAGTGTGGTGGTACCTGCCCGG
GCGGCCGCTCTAAGAACTAGNTGGGATCCCCCGGGCTGCANGAATTTCCGATATTNAAGC
TTATTCGATTNCCGTTTCAGACCTCGAGGGGGG

Sequence 5297

CCGGGCAGGTACGCGGGGAGAGCTCTCGGACTTTCGGAAGCTCTCGGTGTGGGTGCGACC
CGAGAGAAGGAGCGGGGCTGGTGGGGCTGCTGCAGCCGTCACAGGAAATAAGTAATCATG
GTGCTCAACAGTTTGGATAAGATGATTCAACTCCAGAAAAACACTGCCAACATCAGGAAT
ATTTGTGTTTTGGCTCATGTTGACCATGGAAAACTACTCTGGCTGACTGTCTTATATCT
AGCAATGGAATCATCTCCAGCCGCCTAGCAGGCAAGTTAAGGTACCTCGGCNCGCTCTAG
AACTAGGTGGATCCCCCGGGGCTGCAGGAATTTTCGATATCAAAGCTTATCGATACCGTC
CGNACCTCGAGGGGGGGG

Sequence 5298

CCGCGGTGGCGGCCGGACCTTAGAAAGTCACACATCTGCGCGCCTGTGCGGCCCTGCTT
CTGCGGATGCTGAGGCACGTAAAAAATTTGAAGAAGGGAATTCGAGCGGNCGCCGGGC
AGGACGCGGATTTTTGGTTTGGTATTTTCTCTGGTTTTTGGGT

Sequence 5299

CCGCAGAGGCAAGAAAGGGACCCCACTTGCTCCCATGCCACCTCAAGAAAAACATAAA
ACANTTTTTTTTAAAAAANGAAAAGAAATCTACCTCAGTTGACAGGATTCCACCTTTAGG

Table 1

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GTTNCTTCAACTTTTAAGTCTTACCTGTTGAGTGTAACTTTGTAGCATCTTGCTTTTCC
AAGCAAGCTANTGAGGCATGACAGAGCAGAAGTNTGTAAATGTCCCTGTGATGGACCTCT
TTCTAGCATGTACGCAAGTTTNATTTTTTAATAAAATTTGGGTA

Sequence 5300

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGA
ACATCATGAAATCCAACATTGACAAGAAGTTCTCTGCGCACTACGACGCGGTGGAGGCAG
AGCTCAAGTCCAGCACCGTGGGTCTCGTGACCCTGAATGACATGAAGGCCAAGCANGAGG
CTCTGGTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGTCCAAGGAGCTGCAGA
TGAAGCTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGATCTCCA
GCCTGTCCTTCACCCTGGAGGAGGAAGAAGAGGGAGGCCGAGGAAGGAAGAGGGAGGCCG
GCCATTGTATGAAGGGAGGGAGATGGAAAGGGGAAAAGAAGATCACCCACCGAAAGAAAG
AGAAA

Sequence 5301

TCACGGTCTGCGCGATCATCCAGCTCACCACGATGTGCGTGTCTTGGGGTCGGGGAGCA
TGCCCTTGGCCGTATCGTACTTTTTTTTTTTTTTTTGGTATAACAGCTCTTTATTTCTG
TGAGTTCTACTAGGAAATCATCAAATCTGAGGGTTGTCTGGAGGACTTCAATACACCTCC
CCCCATAGTGAATCAGCTTCCAGGGGGTCCAGTCCCTCTCCTTACTTCATCCCCATCCCA
TGCCAAAGGAAGACCCTCCCTCCTTGGCTCACAGCCTTCTCTAGGCTTCCCAGTGCCTCC
AGGACAGAGTGGGTTTATGTTTTTCAGCTCCATCCTTGCTGGTGNAGTGTNCTGGT

Sequence 5302

NCTCCACCGCGGTGGCGGCCGCGGTACACGTATGAGATCATTAACTTTTAAAAGTTCT
ACATTAATTGACTTGGAATCCTTAGAAATGGAGTGGTGACATGTCAGTATGAGAACAGGC
AAAAGGNAAATTNTTTTTTTTTTTTACAACCTTAAGTNAATCTCCAAATAATAAAAACTNTC
TGATCTGTATTATATCCAGNNGTTGGGTCTTATATTTTACCCACAAACAACTGACACTG
CTATCTTTTACTGTATTTTTTAAAATTTAATTTGAAAAGGTCACCCAGAAGCATTTNTGA
AGGAAATGGTTCTAGA

Sequence 5303

CCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGAGGGAGCTGGA
GAAAGAAGGAGGGGGAGAGACTGCCAGAGAGGAAGAGAAAAGAAAGGAAGAAACATTAGA
AAGAAAAAGGAGGGAAAACGGTTTAAAGAGAGATCAATTACCCACCCTTAAATAGC

Sequence 5304

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGGGGAG
CTGGCCGGGGCTCACGGTGTGTTGACCCGTCGGTCTGCGTGAGAGGAAAGGGAAGGAGGA
GGTCCCGAATAGCGGTCGCCGAAATGTTCCGGTGTGGAGGCCTGGCCGGCGGGTGCTTTT
GAAAGTAGAAGCCTGGTGCCCTTGGTGCGGACCCGTGTGCGTCCGAAGCCCGAGGCAGAG
GAACCGGCTCCCAGGCAACTTGTTCCAGCGATGGCATGTTCTCTAGAACTCCAGATGAC
AAGACAAATGGCTAGCTCTGGTGCATCAGGGGGCAAATCGATAATNNCTGTGGTTAGTC
CTTATTGTGGGGCTTATCAAACAGTAGGAGGCTGGTGCCCTATGCCTACAAGA

Sequence 5305

CCGGGCAGGTACTTGCTTCTGCCACCTCCGCTGAGTAACCTGTAGGCATAGGTGTCAGAT
GGGCAGGGAGTCCAGTGGTCACATTTTTGCTTTTGGGGACTGGAGCTTTGAGGACAGGC
CTCTCCCCGATGCTTGCCGGATGCTATAAGGCAGGCACTGGACAGGGGTGCATCTGGAAT
GAGCTCTGCGAGCAGGTACATGCTGCACGCACACAAAGACACTGAGAATATTTTAAAGA
AGCCACACATCACAGAATTTGATAGTCAACTTCATGCAATGAGTTCCTTTTATATTTTCAT
CAAAAGGTTTACTTGCCCTTTACTTGTTCCAAATTTCCAAGGATTAACCTCTTAAATTT
TGAAAAAAGTA

Sequence 5306

CCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTGGCTTACTTAAC
ACATATTTTATTTATTGGAAAAGGCATTGACACTTAGCTCANATTCTTAACCTTGCCATC
CATATCTAAGTAAGCTATTTTATTTTTTTTATTNTAATTTTNGGGTGGAGTCTTGCTCTGT
CGCCAGGCTGCAACCTNTGCCTNTCAGGTTCAAGCNATTNTCNNGCCTNAGCCTNCCAA
GTAGCTAGGATCATAGGCA

Sequence 5307

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGATANAGTT
TGCTTCTGAGTGTCTGCTTTGTTTAGTAGAGGTGGGCAGGAGGAGCTGAGGGGCTGGGGC
TGGGGTGTNGAAGNNGGCTTTGCATGCCAGCNATGCGCCTNCCTGNGGGATNTCAATCA
CCCCTGGNAACCNGGAGTGGCCCTTGGCTCACTGNGNTCTGCATGGNNNGGATCTGAATT

Table 1

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AATTGNCCTTTCTTCTAAATCCCAACCNAACTTCTTCCAACCTNCAAACCTGGCTGTAACC
CCAAATCCAAGCCATTAACCTACACCTGGACAGTAGCAATNGNCCTGATTAATCATCTGGC
C

Sequence 5308

CCGCGGTGGCGGCCGCGGCCACTGTAACCAAGAAAGTGGCTAAGAGCCCAAAGAAGGCCA
AGGTTGCGAAGCCCAAGAAAGCTGCCAAAAGTGCTGCTAAGGCTGTGAAGCCCAAGGCCG
CTAAGCCCAAGGTTGTCAAGCCTAAGAAGGCGGCGCCCAAGAAGAAATAGGCGAACGCCT
ACTTCTAAAACCCAAAAGGCTCTTTTCAGAGCCACCACTGATCTCAATAAAAGAGCTGGA
TAATTTCTTACAAAAAAGTACCTCGGCCGCTCTAGAACTAGNTGG
ATCCCCCGGGCTGCAG

Sequence 5309

CCACGTCCGAGGACAGCACCATCTCTTCAACTGGCCAGTNACATGATCCAATAAATTCCC
CTTTGAGGCTTTGTGGNTAACGTTNAGTTGGGCTGCNNNACTTCTGGGGCCTTCGNGTCC
GAGGCCAGCACACCAAGACCACTGGCCGNCNGGCCGCACCGTGGGTGTGTCCAANAAGA
AATAAGTC

Sequence 5310

CCGCGGTGGCGGCCGAGGTACAGCAGAACTGCATGATCAGCTGTATGGTAGCCTTGAAAA
CCAACAGGCCACAATCACAGTGAAAACCTCAGGTTGGCAGCCACTGGAGGATACAAAATG
AGTTTGGATCTCCTTCAATGCCCCATTCCCAGAGAACTGTCATTATTTGACCTGCTGGTA
GTTCCCTAAAGGACGTGCAAGGATGTTTTTATTTGACTGGACACTTGAAGCTTGCCCTGT
ATGAACAGCCCCCATCTTCCCATGCTTGTCAAAAATCAGAGGCAACTAACACTGCGGCTT
CCTGAGAGTCTCACTCTGTCAACCAGGCTGGAGAGCAATTGCACAAACACTTGGCTCACT
TGCAGCCTCAACTTCTT

Sequence 5311

NCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGTGGCTTGA
GCTCCAGGGTCACTTTCTGCCCAGAGGCTGACTGATAGTGCCCATCACTGCAAGGGCCTA
GATGGGCTGGGCGCAAGCTTCCCAGCATGCTCTGCAGCTTTTTGGTCTTCACCTTTCCCT
TACTCTCAAGGAGGCTGGTTAATCTATCCAGGAATTCCAGAAGTTGTTGCTCTCGTTGCC
GGGCTCTGGCCAGGCAGGGTCCAGGGCTGCAGCCCGAGAGAAGCCCTCCAGGGCCTCCC
CATAACTCTCTTCATATTTATGCAACGTCGCCCTGTTTCAGATGAAGGTCAGGATTGCTAG
ACGCTTTTCTGTCAACTTTCTCTGCTTGGGCATAGGCACTGAGGGCTTGCTGG

Sequence 5312

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCTGCA
TTAAATTTTCATTTTAGAAGAGAATCTTGGTTTTGGTAATTCATTTTTTTTAAGATCAT
TATGTGCAAAACACCAAGTTTTTAAAAATAACTCACAGAATGGCCTTAGTTTTCAATGTCT
TGATGGTNTATTTGTGAGTTGTGTTATCTGTAATATACATCCCAGAATAAAGGAGTGAAT
TAAATAGTCTAAAAAAGTACAAAAAAGTACAAAAAAGTACAAAAAAGTACAAAAAAGTAC
TTTGTGGGCACAAAAGGAATCCCTCATCTGGTGACTCATTGATGCCCCGACCATCCGTTA
CCCCGATCCCCTCATCAAGGTGAATGATACCATTC

Sequence 5313

CCGCGGTGGCGGCCGAGGTACGCGGGGAGCTTTGCTCACTCAGCTAATGGGATGGCAAAG
GTGGTGGTGCTTTCATCTTCAGGCAGAAGCCTCTGCCCAT

Sequence 5314

NCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCCTAGCGCA
AAGTGGCACGTGCGCAGCTGGATGAGCGCCCTCTGATGCTCCAGGGTCCCCTGCCCTGTG
ATCTGTGGCTGAGAAATGGATCCCTGGAGAGCTGCTAAGTGATGCGGGCTGGCTATCGCC
TTTTTATATTGACCCTGATAGATGATCATATCAGTGAGGAAGATTCTTAACCAAAGCCAA
GTATCCGTCTTCCAGGCCAAGCAAATCCTTGTAATTTCTTTGTCAAGGAATTCTAGGGAA
TAGAGCAACTCCCAGCTCTCCCTGGCCAATTTAAAGCTTTCTAACACTTCAGTGGGAGTT
AGCAAGTTCGGCTTTATTGACTACAATGTGACGATTTCTTCCTTTCGCCGAACAG

Sequence 5315

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGG
GAGAGCGACCAAACGTCCCAGGCTTCCAGGCCGCACTCCAGAGCCAAAAGAGCTCCATG
GCGGCGGCGGCCAAGCCCAACAACCTTTCCCTGGTGGTGACGACCGGGGGACTTGCGC
CTGGGAGAACTATCCTATCCCTGAACCAGGCCCAAATGAGGTCTTGCTGAGGATGCATTC
TGTTGGAATCTGTGGCTCAGATGTCCACTACTGGGAGTTATGGTTTCAATTGGGAATTTT
ATTGTGAAAAAGCCCATGGTGCTGGGACATGAAAGCCTTCGGGTAACAAGTTTCGAAAA

Table 1

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AAAGTGGGGATCAATCGGNTAAAAGCCACCTTAAAACCAGGGTGGATCGTTGTTT

Sequence 5316

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGGCACCTTGGCCGCGTTCAGAGT
GCCGATGAGCTCCCCCAGACTCTGCTTCCGCCCCTTCATCTTCCAGTTTCCCCAACGAA
GAACTTCCTGGAGGGCGCCATGGCGCTGGAGCCGAGGCGCTGAAGGTCAAGTGTCTGCCC
CCGCGTACCT

Sequence 5317

CCGCGGTGGCGGCCGAGGTACTTCTTGTGGTGCAGCAGCAGAACCAAGCCGCCCTAGC
AGCATGAGCCCTGGGGCACCCAGGGCCACTGCCATGATGTCCAGGACTAGTGGGGACAAG
CCGTCCACTGGAGGGAAGCCCACACCCAGGAAGCATCNACCCAGCTTGAGNTANTGTTTG
GTCCCAATAGCCAGGGCCTGTGGAAGCCCCGAACGTNANATTTGAAGGCACAGAAAGTTA
TTCTTGGGACCCAAAANAAAGGCTTCGGACAANTGGGGTGACTTGGGGAAAGAAGAGTAT
TGCTTAAGGCNNGGATTGAAATAGGGGGAAAGCTTTTGNCAAGGNGCAANGGGGNCTTGA
TTTCTNCGGGCCCCCCCCCGG

Sequence 5318

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAAGGCGACCA
CAGCAGCTGCAACCTCAGCAATGAAGATGAGGAGGAGGATGAAGAAGAACGTCACGAGGG
CACACTTGCTCTCAGTCTTAGCACCATAGCAGCCCAGGAAACCAAGAGCAAAGACCACAA
CGCCGGCTGCGATGAGGAAGTAGCCACGTTGACAAACTGCATGGCACTGGACGACAGTG
GCCCCAAGATCTTCAGAAAGGATGCCCCATCGATTGACACCCAGATGCCCACTGCCAACA
GGGCTGCACCACACAGGAAAGGATGAGCCAAATTGAAGGAGGGATCATCATGGGTCTTTA
ATGGAAAGCTTGAAGCACTGCCATGGGTGGGCTCCTGGTTCAGGGGCTC

Sequence 5319

NAGACAGCAGATTGGGCCTGACCCCCACCAAATCANCAAGCTCTTCCATGGTATTCTATN
TAAGTCTCCCCCTGAATGGGTATTGGGCGTTTGAGCTTCATCCACATTACNCTATTNNTTC
AANTNTNCCTCTTGGAGCCTTTACGATATTTCTGCCATCATTTCACTCTAGTGANGGCAA
TTGTNTTTAGACCTTTAAATACCTGAGTGGCCCAGCGTCTTGGTAGGCTCTGAAATGGG
CATGAANGGCTCCTAAGNNGCCTGAATCAA

Sequence 5320

GAAGCCAAGCCCANNGTTNAAAAGGCGGGCGGAACCAAACCTAATAAGCCAGTTGGGGCA
GCCAACNAAGCCCAAGAAGGCGGCTGGCCGGCNGCAACTCNGAATAAAGAAGCGCTTAAN
AAAACACCCNAANAAAGCNAAAAGC

Sequence 5321

CCGGGCACGGTACATGGTTCGAAGCCACTATGTAACAAGAAACACTCTCTGAAGAAGAGG
CTGGGTTCCTTTAGCTTACACAGTGACCATCCACAAAGACTTCGGCNCTTTTGAGAGGC
TCTTCAGNNGCGATTTATATGCCCCAAAATGTCTACTGTGTGCACCTGGATCACAAGGCG
ACGGATGCCTTTAAAGGTGCAGTNGAAACAGTTACTNAGCTGCTTCCCAAATGCTTNTCT
GGCTTCCAAG

Sequence 5322

CGAATNGGAGCTCCACCCGCGGTGGCGGCCCGAGGTACGCGGGCAATGACATGTGTGCTA
GAGCTTACTCTGAGAAGGTGACAGAGTTCATGTTGTGTGCTGGGCTCTGGACAGGTGGTA
AAGACACTTGTGGGGTGAGTCATCCCTACTCCCAACATCTGNAGGGGAAAGCATAATTCA
CCCATTCCTGTGTTGAGCACATGCTTACTGGGCACCTGCTACGTGACCAGCATTGCCGTA
GACCCTGGGAAGCACGCACTGAACAGTCANGAGCTGTGGATGGTGCTGGACAGAAAAANG
ACAGGGCCTGCTCAGGGTNATTCTGGGGGTCCACTTGTCTGTAATGGTGTGCTTCAAGGT
ATCACATCATGGGGCCCTGAGCCATGTGCCCTGCCTTGAAAAAGCCTGCTGTGTACCTGC
CCGGTCGGNCGTTCTANAACTAGTGGATCCCCGGGGCTTGC

Sequence 5323

CTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGAGATTAGAATTCCTGGAGGC
TAATCCACTGNGCTNTTGATCTGATGTNCNGAGTGNAGTGGNCCTCCTGGCTCCATGCTG
NNTNNCAAGGACTGAGAATGCACATATGGATNGAACAANTCTAGAAATTCAAGCTNCNTC
TATTGCTNAACAAGTNTNNAGTTCATATAAACCTAAATTNATANNAAGGTCTNAACGGC
AAGAGTTNCTACCNAAGATTNTGTTNAAACACCTGGCA

Sequence 5324

CCGCGGTGGCGGCCGAGGTACAGAGACAGAGGAAGGGGGCTCCAAAGCCAAGAGAGGGA
ACCCACCTGCCACAGATACCAGCTAGGTATATACAGAGGCTGGAGGAGGCAGTGTCT
GATTTGCACAGGCTCAGGGGATTGGTTTGACTAGGCATGTCATTACGTAGCCCGCAGGA

Table 1

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AAAGCTGGCTCTCCACCCCTAGCCTTTTAATATGCAAATGCAGGGCACCATGATCTTCTA
CACAGGTGGGGATACTTCGGGGTGTCCATGTATCCAGGAATGTGGGGAAAGGGCAAGAAG
TCCACAGGAATCGCCATGTTTGGGTGGACCCACTTTCTAATGGCTGGCATTGATATCG
GGTAACTGGCCTGGCTTTAAGAGCTGGAGCTTTACAAGAACTTTTCCAAGACGTGCTTT
AAAAAACAAAACTT

Sequence 5325

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTCCATTTATC
CGCCATGATAAGTGCCAGCCGAGCTGCAGCAGCCCGTCTCGTGGGCGCCGAGCCTCCCG
GGGCCCTA

Sequence 5326

GCTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAAGGT
GGTGCATTACCCGGAAGTGGATCAAGGACACCATCGTGGCCAACCCCTGAGCACCCCTAT
CAACTCCCTATTGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTG
GAAGAGTCTACAATGTTACCCAGCATGCTGTTTGGCATTGTTGTAAACAAACAAGTTAA
GGGCAAGATTCTTGCCAAGAGAATTAATGTGCGTATTGAGCACATTAAGCACTCTAAGAG
CCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAANAAAAAAAAANAANA
AAAAAAATGTACCTGCCCCGGCGGCCGCTCTAGAAGTAGNTGGGATCCCCCGGGC

Sequence 5327

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCCTCAG
CGGATGTGGCAGCCCCGAGCCATGGCTCTCGCCGTCCGAGTCGTTTATTGTGGCGCTTGA
GGCTACAAGTCCAAGTATCTTCAGCTCAAGAAGAAGTTAGAAGATGAGTTCCCGGCCGC
TCTAGAAGTAAGTGGATCCCCCGGGCCTGCANGA

Sequence 5328

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCTACCA
GAACCTCGACATGGTGGTGTCTGTCATCTGCCATTGGATGCCAGCTGGGCAGAGACCCCCACGG
GCTCCGAGTCGTGGTGGTCAACGCCGAGAAAATTGTTACATCCACATTCTGGCTGTGTA
GCCACTCCACAGATGGGTGGTCTCTTGGGGATCAGAATGCCCTCCACTCATGAGACTCT
TCATTTTGTCCACTTTGACAGGAAAAGTGGGAATGTATGCAGAGCTCTCAAAGAAACAA
AAAAGGCCAAAACGGTGCCTTCAGCCACATCCTCTGAATTGGCCCTGACTTGGACTAAAT
GCACTAATGCAAAATCCCTTGACAAAAGCGCATAGGTTATTTCA

Sequence 5329

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCCTCCCAGATGGCTGCTGCTGCCC
CTTCAGTCCAGGCCTGTGATGGTTAATTTTATAGGCTTAAGGTATCCAGA
TAGCTGGTATTATTTCTGGGCGTGTCTGTGAGAGTGTCTGGAAGAAGATAGCATTTTA
ATCAATGGACTGAGTAAAGAAGGTTGCTCTTAGGCCAGGCGTGGTGGCTCACATNTGTGA
TCCCAGCACTTTGGGAGGTTGAGGCAGGTGGATCACTTGANGTCAGGAGTTGGAGACTAG
CCTGGCCANTATGGCNAAACCCCATCTCTACTAAAATACAGAAAATTAGCAGGGCATGG
TGGTGCATGCCTTGTAATCCCAGCTACTTNGGGGGCTTATGCAGGGAGAAATCTCTTTAA
CCTGGGAA

Sequence 5330

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGNNAATTGCTT
TATTCAGAGGATCCCCCAAGGATGCAACGGATCGCTGCTGTGTCATGACTGTTGCT
ACAAACGTNTGGAGAAACGTGGATGTGGCACCAAATTTCTGAGCTACAAGTTTANCAACT
TCGGGGAGCANANTNACCTTGTGCAAAACAAGGACTTCTGCAAAAGTCAACTGTGTGAGT
GTTGATAAGGCTGCNGCCACCTGTTTGTCTAGAAACAANACGACCTACAATAAAAAGTAC
CTN

Sequence 5331

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGNCAGGACCTGCCCT
GCCCTCTGCTATGAAGGTCTCTGCCTTGNGGATCATGGGACTCCCCTTGGAGGATCTGTG
CAAAGGGGGGCTGGGACACAAAGGATCAATGTCTTATTTGGGAGGGCNGAAGCAAAGGA
ACTTGGACAGGGATTGGNGNNCTTTNNGGAACCTTGANGTTTTATTCTTGGA

Sequence 5332

ATAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGANGTACATGGTGGCCAATCAAACAG
GCCACACCCTTGTGTGCAAGTCCCGCGAGAGGTTCAAGANAACCTCTCCCGTTTCACTNCTGC
CTCAGGCCTCAACCACC

Sequence 5333

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTAGTGCA

Table 1

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CTCTTGGTTCAC TGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCA
CAAGTAGTGGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTA
AGAGACAAGGTTTTTCACCATGTTGCCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATC
TGCCACACCTTGGA CTCCCAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTT
AAATCAACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAGAACTCCATCACCG
TGGTGCTCTCTTTCCTGATGTGTGTGCCCAAATAAGCTTGTTTCTCATTCAAGATGACT
TANTNGCTATGATATATATA

Sequence 5334

CCGCGGTGGCGGCCGAGGTACTTNGNTTTTTTTTTTTTTTTTTTTTTTTTNGGACTTCTAAAA
AANAATGGCTATACTAATTCATGTTTCCATGAACATGTGTGCAANANTTCCCTTTTNTCT
ACATNTTTGCCAACATTTGNTATTTATTATGATTATTTNTTTTNTTGAGAAGGANTCTTT
GCTCTTGNTNGCCAGTACTATNAGTGCNAATTGGACNCAAATNTTNGGGNTTCACTACA
ACCTNTGNNCTNCCGGGTNAAGCAATTTTCTGNCTACANCTCCCGNGGGNGCTGGGA
TTACAGGNTGTTACCNCTTGNACCCAGGTAAATTTNGTGNTTTTAGTATNANATGGGG
TTTTTAAC

Sequence 5335

CCGGGCAGGTACTCCAGGGTGCCCCCAACTCCTGCAGCCGCTCCTCTGTGCCAGGCCCT
GGAAGGAAC TTTGCTCCACCTCAATCAAGCCCTGGGCCATGCTACCTGCAATTGGCTGA
GCAAACGTTTGCTGAGTTCCCAAGGATGCAAAGCCTGGTGCTCAAGCTCCTGGGGCGTCA
ACTCAGTACTTGCGGTGAGTGGCGTTGCTGATCTGGGGGAAATACGCGTNGACCACCAAG
AAGAAGGCCGAGGCCAGGAAGGCCAGCACCCCGATGGCACTGCCATAGCGGCAGGCATCC
TCGTTGCGGTGAACACGCAGTACCT

Sequence 5336

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATCCNGGTGCAACTACATTCACTCTA
ATTNTCTTTCTTGCTACCTCTNTAGCAAGAGCACGTGAAAATCCAATAATCCTNCTTTA
CTGGCACTGNAAACGGACTGGCCAGAGTTGCCTTTTAAGCCAACAATGCTTCCTACATTA
ACAATAGACCCCTCCCTGTTGTTGAATCATAGTCCTCATGGCAGCTTTACAGGTCAGCATG
GAACCCAAGAGGTTAGTATGAAGCTGAGATACCATATCTTCAGTTTTTGTTCTTACTAAA
AGACCATCCCTGTTAATACCAGCTGCATTTACCANGAAATTTACTCGACCTAAATGTTTC
TCCATCTCTTCAAATGTATNNGGAACATCATGTTCTTTA

Sequence 5337

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTGCAAATGGGCCCTTTATTTCTGAACTGCCACCCTGCACGGATAAGGCCACT
TGGGTGTCAGGCACACTGTGGAGTGTGAGGGACAGANAGGAGAGGGGCTGCACACCAAN
ACTGCCCTGTCCTCACGGAGAGGAAAAGCGGCCCNAGGTACGGGGGGCCTGTGGATGCTG
CGCCTCTCCGAACGCAACATTGAAGGTGCTCCTTGCCGCCGCCCTCATCGCGGGGTCCGT
NTTCTTCTGCTGCTGCCGGGACCTTNT

Sequence 5338

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTCTTCAATC
ACAAAATTTTTACCAATCTATTTATGTCTAGTATCAGAAAGTTAAGCAAGGAGATTGCA
AACCAACACAACACCTTTAGTCTGGATTTTCCCGGAGCCCCATTTGTGTTAGTGTCTCG
GGCTACTGTAACAAGTTCTCAATAATGTGGTAGCTTCAAACAACAGGAATGGAATCTCTC
ATAGTTCAGAAGTCCAGATCAGTTTCACTGGGCTAAGATCTTGAGTTCATCAGTTCTGGC
TCCTTCTGAAGCTCTAGGGAGCAGTCTGATTTAGCTCTTCCAGCTTCTGGTGGCTTCTCT
CTCCCGGGATGTGGACACATCACTCAGTTCTTGGCAACCTGGTTGCATTCTTAATTTGGT
CCTGTAATTCTTCATTGCTGTATTAACCTTCTG

Sequence 5339

TNACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACACTTTTC
ACCCCACTTCCTCTGCCATCTTGGTCCTGCTGTCTGAGGAGCTACCTGTGCACCCTGCC
TCCGGCTCTCCTGAGCAGAGAGATCCTGATGGCTGACTCAGAAGCACTCCCCCTCCCTTGC
TGGGGACCCAGTGGCTGTGGAAGCCTTGCTCCGGGGCCCGTGTTTNGGGGTTTG

Sequence 5340

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCTGA
GGCAACTGCAACGCGCAGCATGGCTGTTTCAAATATTAGATATGGAGCAGCAGTTACAAA
GGAAGTAGGAATGGACCTAAAAAACATGGGTGCTAAAAATGTGTGCTTGATGACAGACAA
GAACCTCTCCAAGCTCCCTCCTGTGCAAGTAGCTATGGATTCCCTAGTGAAGAATGGGCA
TCCCCTTTACGGTTTATGATAATGTGAGAGTGGAACCAACGGATTCAAGCTTCATGGAAG

Table 1

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CTATTGAGTTTGCCCAAAGGGAGCTTTTGATGCCTATGTTGCTGTCGGTGGTGGCTCTA
CCATGGACACCTGTAAGGCTGCTAATCTGTATGCATCCAGCCCTCATTCTGATTTCCCTAG
ATTATGNCAGNNGCCCCATTGGCAAGGGAAAGCCT

Sequence 5341

GGTACGCGGGGGAAGTCCTTGCAGGGTGGCCTGGGTGACTGCTCACCAGCCCCGGCCCTC
CCCAGGGTTCTGGGCCAGAGCCTCCCTGGCCGTTGGAGCGGGAGCTGTGGGTGGAACACT
TCTGAATTGGGAGATTGCCTCGGACCTCCAGACGCCGAACATCTCAGCACATCCCGCTCT
GGGCTTTAAACGTGACCCCTCGCCTCGACTCGCCCTGCCCTGTGAAAATGTTGGTGCTTC
TTGCTTTCATCATCGCCTTCCACATCACCTCTGCAGCCTTGCTGTTTCATTGCCACCGTCG
ACAATGCCTGGTGGGTAGGAGATGAGTTTTTTGCAGATGTNTGGAGAATATGTACCTCGG
CCGCTCTAGAACTAGTTGGATCCCCCGGGCT

Sequence 5342

CTCCAGGAACGCCGACCACTCCACTTTAGGTATCATAACGCGCCACGAAGTTGGGGTTGAA
TTCCACAGGGCAGATACGGACCTCGGTGGCCTGGAGGCGCAGGGGGAAGCCACGGGACCC
CACCCCCCGCACATGCGAGCTCAGCAGATTGTGGGTAAAGCAGTTTCATGTCGCCGCACAA
ACTCCCCCGCGTACCTCGNGCCGGGGCAGAAGTTGAGACCACCCAGCAGAGGAGCTAGGC
CAGTCCATCTGCATTTGTACCCAAAGAACTCTTACCATGAAGACCCTCCTACTGTTGGCA
GTGATCATGATCTTTGGCCTACTGCNGGCCCATGGGAATTTGGTGAATTTCCACAGAATG
ATCAANTTGACGACAGGAAAGGA

Sequence 5343

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACGCGGGGGCAGTTCCTTGG
AGAGCTTGGAGCCGCGCGCCGGAGGGAATAGGAAAGCTTGGTTACAACCCGGGACACCCG
GAGCTTCAGGATGGTTTCGTACCTTACTAGTTACCCAGCAAGTCACTAACATACAGAAACA
TTCATCATGAGAAGCAAGAAACACTACCCATCCCTTCTGCATTTTAGCAACTTGTACTC
CTAAGCAACAGTGCTCACATCACTGAGGTCTGTGAACAAAGTTCACATTTTACATCCTTA
AAGAGCATTTGTTGTTATCTGAACCTCTGCTCTGCTCTTCCCAAAGCATAAACTAGTGTT
TTTATGAATAATAAAATCTTCGTACCTGCCCG

Sequence 5344

GNCGNCCGGGCAGGTACGCGGGGGGAGAACCCCAATAATAACCCGATCCACCCNAACCTGC
GGTCCACCGTCTACTGCAACGCTATCNCCCANNGCGNGAGGAGGAGTGGGACTTCANCT
GGGAGCAGTTCCGAAATGCCCACTGGTCAATGAGGCTGACAAGCTCCGGGCAAGNCCTT
GCCTTGANGCAAAGAGTTGTNGGATCCTGAACAGGTACCTNGNCCCGCTCTAGAACTAN
T

Sequence 5345

GGGGGGGTTCGGTTGTCTGGAGCCCAGCGGCGGNTNTGAGAGTCCGTNNGGAGCAGCTT
CCAGGATCCTGAGATCCGTATCAGCCGGGGTCGGACCCGGCTCCTCAAGAGTTACTGATC
TATGAAATGGCANAGAATGGAAAAATTTGTGGACCCNAGACGTNNTACCAANTGAACANN
GAACATCATAAGTGGGAAATTTACAGACCCCTTNTTTAGTTGAATGAAAAGAAGAGGAA
GGGAGCNNNAAAGAAAGGCAAG

Sequence 5346

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCGGGCAGGTACAAGGTAA
TATTATTTTGATGAATTCTGTATTCACTGCTAAATCACAGGATACAAGACCTGGG
TTGAACTTTTCTTAAATAGTTTACATGGGCAGTCCCTGGTTTGCTGGGCAGTTTCCTGT
CTCATCAAATCCCTGGCAAGCTGGGAGGGAGGGAGGAGATGCTGAGCAGCCTCTATGGTC
CTTCTTGAACCAAGCTGCTCCCTGCTGGATATGACAATGGCTCAGAAGCAGACTAGCAAT
TCTCAAAGGACAGGGAGAAAAATCACCA

Sequence 5347

CCGCGGTGGCGGCCCGCCGGGCACGGTACGCGGGGCCTTTCCGGGCTGTCTGACACGATG
CAAGTGTCAGCTTGTGTTGGCCGGTTGCCTTTCTTTTCGCAAGAGGGGAAAATATCCTCAC
AGACTTTCTGTGTTCTCAGAGACGATCTTCTTCCCTAGAAAGAAGTCGCTTACGGTTGGC
GTTTCCCTCAGGCAGCGCCCGTGGGCAAGCCACAGGCCCTTGTAAGGCGCGCGCCGCGG
TCCCGCCTCTTTCCTTT

Sequence 5348

CTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGNCGNCCGGGCAGGTACTGCTCGCC
TNCGTTCTTTTGATGTAAGCGCCCTGNGAGCTTTATTATGAATGTTTCCTGTTCCTCTTNC
CTTTGTGCCTTCCGNTNCTTTCCCTTTTTTGAAGGTGCTCTGTCTATCTACATCTTCTTCC
ANTGTTTNTCTTTGNTCTTCANGTTTTGCAAANATACTTTTCACTCAANACCCCTTGAT

Table 1

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ATTCATGACTGCANGAAACTTTTTGGCTTNGGCTTTGTCTAGAACTTNTGATATTNGG
CAATCTTCTCATCCAGTGCT

Sequence 5349

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTNGTTNTTTTTTTT
TTTTTTTTTTGNTGCTCCAGNCAATGAAAGGGACACTTTATTGAGGCTCCAGGGCCACGG
GGCCTG

Sequence 5350

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGATCACCTGA
GGTTGGGAGTTTGAGACCAGCCTGACCAACGTGGAGAAACCATGTCTCTGCTAAAAATAC
AAAATTACCTGGGTGTGGTGGCTCATGCCTGTGGTCCCAGCTACTTGGGAGGCTGAGGCA
GGAGAATCACTTGAACCCGGGAGGCGGAGGTTGCGGTGAGCTGAGATCGTGCCATTGCAC
TCCAGCCTGGGCAACAAGAACGAACTCCATCACATAAAAAAAAAAAAAAAAAAANGTNC
NCGGGGGAGGCGAACAATGGCGGAGCTGGGCGAAGCCGATGAAGCGGAGTTGCAGCGCCT
GGTGGCCGCCGAGCAGCANAAGGCCGAGTTTACTGCACAGGTGCATCACTTCATGGAGT
TATTGT

Sequence 5351

GNCCGGNCAGGTACNCGCTGTGGCNCCTGCANCGCGCANCATGGCTGTTTCAAATATTAN
ATATGGAGCAGCACATTACAAANGAAGTATNGAATGNACCTAAANNANATGGCNTNNTAA
ANANGGGNGCTTNNGNNTATANNAGGCTGGGGAGCACTTAATTTTTTCCANTTTTAAA
AANGGGAANTGCTNCTGGNNGGCTTTAACTCNCCCTNTNCCCTTTTTTGGNCNAAAGGATT
NGGGAACAAAAAGCNCATTCTTGGGGCAGGTCAAGGGGGGCCAANGGGACTGGTTTGNGA
GGGAAGAAGTTTAGCCCAAAGTATAGGGCTCTTGCCAGATGCCATCACATCCCTGATNC
TGCNATATGCTTTGAAGCACCTTTTCNTGAGAAGGGGAAAAGGGGGAATCTTTTGGA
AGGGTTCCTTGGCTCCAGACCTGGAATNCACAAAAGCCAAACC

Sequence 5352

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGCTT
CTTTAACATGCGATGAACGTTCTTTTCCCTCCTGGGTGTTCATCCACGACAGTCTCTCC
CTGTGCTCCTTCATCACCTTTCCCTCTCTCTTTGATGGCTACAGAGTGGTAGGGCCTGGT
GCTTAGTCGATGAAGGAATGGNAACCCATNTTCAGTGCTGGTTGGAAGAATTTCCNCCA
GAGCGGCTGGAGAACCTTGCGCTCAAATCTCTNTGGTTGATGAAGAGGCGAGGAATCAA
GTGACTGATCTGGAAGAAATATCTCGCAGCACTGCAGCTAACATCACAGAACTTAAGTTG
TGTTTTGTGTTGTGTGCCACAGTAGACAAATGGTGTACCTCGGCCCGCTCTAGAACTA
GTGGGATCCCCCGGGCTGCAG

Sequence 5353

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTNCCTTNTTTTTTTTTT
NTNNNTGCTTNNNTCAGCCTTGACAACTCCCTTTTTTGTCTGCATCAGGCTTTCCTTTANC
TCGATATGCAGNAATATCCTTTTNGTATTTTTCTTCANCTTNGCAGCCTTNTTNTCATA
AGGCTGNTTGTATCNTGCAGCAGAGGTAATTTNCACATATTATNCCANTTTNNTTCGTA
AACNTCNCCAAATNGGACAGGCCAGGAGTGNTCTACCTTTGATTTTTGGGCGGATACTC
ACGAGCAGAATAAAGGAAGGAAGGCCNGAAGGAGGCCTTTTTGGGTGCATTTGGGATCCT
TGAACCTCTTTTTTTNGGCTCCCCTTTGGG

Sequence 5354

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTGA
TTCTTCTTTTTTCCCTGGCTCTCATCATCTGCCAGCTTCAGTCCATTCCAGAGTCGAC
CAGAAGCTGGGTCTGAGGATTACCAGCCTCACGGAGTGACTTCCAGAAATATCCTGACCC
ACAAGGACGTAACAAGAAAAATCTGGGAGACCCAAGTNGNTAGAAGTCCCAGACTGAGG
GGAGCCACCTTGGAGCCAANGGATGCAAATTGGCTTCAACAAGGACACTTGCTTGAGAAG
ATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATG
TGAGCTGGAACAGACCTTCCTGGCCCACTTCCCTGATCACAAGGAATCCTGGGCTTCCTT
ATGGCTTTGCTTCCCACTGGGGATTCCCTACTTTAGGTGTCTGCCCTCAGGG

Sequence 5355

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGCCATTTCTTA
GAAATCACTCCTCACGGGAACACACACTTATGAGTGACGTGTAGAGATTTTAGTTAGTTA
GTTAGTTAGTTAGTTATTATGTGCGGGGGAGGTGGGGGGACGGAGTTTGGCTCTTGCTG
CCCAGGCTACAGTTGCAATGGCCCTAAGGGGGACTNAAAGGAGTTCAACCCTATTGNCAG
AAGAGGGACAACGTTNATTCTGAGCNGTAAGGGCCCGCAGCCGAAAGGTGGCAGGGCCCN
CGCTTTTAAAGGCTGAAATCCCCGGCGGCTCAGGCCTTGTCGTTTCCAGCACTTTGGGAGG

Table 1

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CCCAGGAAGGTGGATCATTGTGGTCAGGAAGTTCGAGACCAGCGTGGCCCAACGTGGGA
GAAACCCCGTTCTTCTACTAAAAA

Sequence 5356

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTAGGCCTCTCT
GGGAGTGGCCTTCTGCGTTTTTAAATTTTATTTATTTTAAATTTTCTTTTTCTTTTTT
TTTAAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCGATCTTGACTCA
CTGCAACCTCCGCCTTCTAAGGTTNAAGGGAATTCTTCTGCTTCAAGCCTCCTGAGTAGC
TGGGATTATAGGCGCCTGCCATTACGCCAGGCTAATTTTTTGTATTTTGTAGTAGACGG
GGTTTCACCATGTTGGCCAGGTGGTCTTGAACCTCCTGGCCTTAAGTGATCTGCCTGCCTT
GGCCTCCCAAAGTGCTGGGATTACAGGCATGGAGCCACCACGCCCAGCCTTCTTTATTTT
TAAGATGGGGTCTTCGCTCTACTGTCCAGGCTTGCAGCTT

Sequence 5357

ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTGNTTGTCTAATTGCTTTATTCAAAGTTGANACCAC
CCAGCAGAGGANCTAGGCCAGTCCATCTGCATTTGTCACCCAAGAACTNTTACCATGAAG
ACCCTCCTACTGNTGGCAGGGANCNTTNAATNTTGGGCCCNANTTGCANGCCCATGGGG
AAATTTGGGTGAATTTCCACAAAAATGATCAAAGTTGACNACAGGAAAGGAAGCCCNAC
TNAGTTATGGCTTNTACGGCTGCCACTGTGGCGTGGGTGGCAAANGATCCCCCAAGG

Sequence 5358

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAATATTTAAGACACAAATTCATTAGGTATGGG
CTCAGGACAGCTTGCTCTTATTTAATACTTGCGTGCTTGTGGTTTTGCACAATGGATGGG
TATTAGAGTTTGCCTTGGATACTTGGCATTGATTAGACTGTNCTGAAATTTGGTTNTGCC
TAANTCAAAAAAATCTNGNTTATTGGTTCTTTCAACAANAATAGNATGTAGCCACTT
TAAAAATAGTTACATTGTTTTCCAGATTAAGTAAATATTTTCAGTTAGGAAGAATACATAT
TTTTATTTTTATTTCAGTTTTTTGAGATGGAGTCTCACTCTGTCACCCAGGCTGGAGTGC
CAGTGGGTGTAATCTN

Sequence 5359

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTCCCGGGGAGTCGGCCTCGGGGC
TCTGCTCTCCTACCTCAGTCTGCCCTACCCTGGAATGGGGAAAATGCGGACATGCCACTC
AGTC

Sequence 5360

ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCGCGGTGGCTCATG
CCTGTAATCCTAACACTTTGGGAGGCCAAGGCGGGCAGATCACAAGGTCAGGAGATTGAG
ACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTAGCCG
GGCGTGATGGCGGGCGCCTGTAGTCCCAGCTACTCGGGGAGGCTGAGGCAAGAAGAATGG
CGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCACTCCCGCCTG
GGCCACAGAGCGAGACTCCGTCTCANAAAAAAGTACCTCGGCCG
CCCGGGCAGGTACTTTTTTTTTTTTTTTTTTNAAGTAACTGGTCTGTAAGTGCATATNTN
TAGAAACCGTCCCCGCANATGAATGAGGGCCAGTGGCC

Sequence 5361

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGCGCT
TGCGCGGGTTGAGGGCGGTGGCTCAGGCTCCTGAAAGGACCGTCCACCCCTCCGCGCTG
GCGGTGTGGACGCGGAACCTCAGCGGANAAACGCGATTGAGAGCAGTGTGTGGATTACACT
ATCACTGGAAAAANNCCAATTTGAGAAATAAAGGGAAAAAGAACTTGGGAAGAATGCAG
GACCTTTGGGTTCCTGTTAGTGGGAAACACTGTAAGGTCCCAGAAATGGAAAAGAAAATG
AANTAAATCAGCAGTTATGAGGCAGAGCCTAANGAGAACTATGGCAACATCAGGTGACTG
TCCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTTGCAGTGAGGCGGGTNTCCTGC
AGGAGGGAGTACCTCGGCCGCTCTAGAA

Sequence 5362

TCGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTGCCTCAGC
ATCTCGGAGAATGTAGTTCTGCTCATCTGGAAAACAGAACAGCACATACTCTGAAAAGTG
TGGACACGTGAAGTGTGGCAAGTGTGACCCACAAAATTCTCGCCCATATTCAGCGTATGG
ACCAGTTTGCTGACTGCTGGGCCAGGGACCACCCACATCATGACAGAAAATGCAGGGATC
TGTTACCAACGGCCAGAAATACAAAATCAATCCCTGAGTCAACCAGCAGATAGAAAGGC
TGCTTTTTAGGTGAAAGGAGAAAAAGAAATGTCTATAATTTGGAAAAACAAAAATGATGA
ATAAAAAAAGTCCGCGCGGTAACTGGGTTTTTAAATAGCTGGAATGTAATA
TTTCATCAATATAACCTTTCCCCCATCTTTGTGGTTGGGT

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Sequence 5363

GNGGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTTTGGCTTCGGGTGAATCACTTTAA
TGCTGTTAACGGCAAGTCTGTAAAAGGTTTCAGGACAAAGTTCTTTTTTCTTTCTTTTAA
ATTATAAACTAACAGCTGTTAGAATCTTTTTTTCTTTTTTTCTTTTTTCTTTTCCCA
NCTNCAAAAAATACTTTTGGGGGAGATGCATTATTAATTTTAAAAATATATTAATNTTGC
ACCAAACCAACCAAAAAGGGTTAAATTAACTAAAAGGAAATAATTNCAAAGAGAAAAAC
CCCATCCCGTCAAAAAAAGATTTCAGCATCTNTCCATCCCCACCCCCCTTCACTGAAA
GGGTTTTGAAGTGGGAAAAGTGGACCCTCACTCTCTCGGGNGGNCCCCTTGACCCACGA
NCCCCTTTTTCAA

Sequence 5364

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTTTTTGNATTTTTTAATAGAGATAGGGTTTCACCAGGTGGCCAGGC
TGGTGTCACTACTNTTGACCTCAAGTGATCTACCACCCTTGGCCTCCCAAAGNGCTGGGA
TTATAGGCGTGAGCCACTGTGCCCCGGCCAANATTAAANAATTTTTTATTAGCTACTACA
GCTTAAAAGTAGCTGCTATGGGAGTGTGGCCTTTTTTGATTAAATACTAGCTGATCAACCC
TAGAATATAAATTCTTGTTTTATAACATTTAGATTTAAANAACAATAAGAATGTAAGCTC
CATGAAGGCAAGAATGCCTTTTTAT

Sequence 5365

CCAGTGTTACTTTAATTGGACTGCCTTCGTAATTCATTGCCTCTGCTTCAACAATGTGCA
ACTCATCCTTTGCACCAGCCCCTAACTGACCGTTCTTAAAGATAACTGGTGCTCATTTT
CATCATTATCCACCTTAAAGTGATAATCTTTGTGCGCCTTTANTTCACAACCCGAAAAAG
ATAAGTTCTGGGGGCCNTAAAGGGGGCTCATTGTTCCATTGTCCATCGAATCTTCCATCN
GGGTGGGGCGGNCCCCCNCTTAAGNTTANGAAAAAAAAGGGCGGNCCGGGANNNNAAA
AAAACGNTGNTCCAAAAAANAACCCGCGCANGACGGAATCACACCAGGGGAAAGGACGC
AGGCTCCCCGCGTACCTGCCCGGGCG

Sequence 5366

GAGGGACGCGGGGGAATCCAGAAGGGGAAANATTGCACTGGATAATTTAAAAACACGCTGG
GGAGAAAACCTGGGGAAACAAAGGATTTATCCTCATGGCTCGAAATNTTTNACAACGCCTG
TGGCATTGCCAACCTGGCCAGCTTCCCCAAGATGNGACTCCAGCCAGCCAAATCCATNCN
NGCTCTACCATNACTTTCCACGATGGCGCAGTGTCAACCGATGCACTNNCGGAAGGGAGT
NGGTGTGCTATTTTTGAAGCAGATGTGGTGATACTGAGATTGACTGTNCAGATNCCCCAT
TTGTTGTGNGCAAACAAATGATCCNTCCCACCTTTGCNTNCTCTNCAACCATGACCTTTTT
CANTGTGGCCATCAGGACTTTCCCTGACAAGCGAGCGTACCTACCNGGAACCTGGCCGTTT
NACGAACCTAGNGGATCCC

Sequence 5367

CGGGCAAGGGACGCGGGGAAGGCCAGCTTGAANANCANCCGGTGGGAAACNGAGGCCCGC
AACGCCCTACAGNGGGAGCTTTNTAAACGGGANCCCNCCGCACTTTTGAGGCANANCGGG
CACAGACCCNGGCAGAGGGACAGCGCCAGGCCAGGANGAGGANGCCCCCGCNGAACAAAN
AAAGGGCAAANCCCGAGGCCGGAGAAACGCCACCNACCGNCGCCAGCNGGGAAGAAAGG
CCGANNGACNNCAAAAACNNGGNGGAAGCCCNANGGACAGCCAGCAACCNCAAGGCAA
AACCAGCCAAAAAAGACCACCCCGCCGGAAAANGGGGANAGGCAAAAGAGGACGNCN
GGAGACCAACGGACACCAAAANCNCCGANGCACNAAGCCAGCAAAAAGCAGGGNACCCCG
GGCCGCCCAAAAACAGGGGGAACCC

Sequence 5368

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGTGTCTCTATGTGAATATG
GACAGTTAGCATTTACCAACATGTATCTGTCTACTTTCTCTTGTTTAAAAAATAAAAAA
AAAAAATAAAAAACTGTACGCGGGGGAGGGGCTCTGCCTTCTGNAGTGNCGCTGNTTGGG
CCCCTGGCGGATTGNAAGCTGCTGGTTTTTGGCCTTGGAAAAANCGCCAAGAAGGGTTNG
CTTTTTTTTTGTCANGNATTTCCCCCCCACGGATAATNTNCNGCCAAAAAGAGTCNTCACC
CCANTGGGGTTGAAAACCNNTTCANGCCNTTCCNNAANAANAATAAATNTGGGGGATTN
TTAACCAAATTTNGGGGNAAGGGAANAANAANCTTTGNGGGGTTTTNNGAANAANGGNN
NAAANCCCAAAANGGGTTTTTTNCCAATANTTTNAGGGGGNCCCAAAAAA

Sequence 5369

NGGAANTCTTGAAGNNGGNNGNNGGCCATATAGAANCAANGGACACTTNANGANCNACAG
GAACGNNGGGGAAGAAAGGCCCANNGGAAGGGNNGGNNGTNTTTNTAAGACTTNCCCNACN
AGNGNNGGGGGTTTTTTTTTTNGAAGGAANGGGGAAGGNNCNNCACNNCNGNCAACCC
CGGGGGGCCAGGAAAAGGGGGCCAAAANCNGCAANAGGAAANCCNNNGGGGGNNNNNACC

Table 1

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GGGGNAACCCCNCCNGGCCCNCCNGNCCCGGGGGGAAAAACAAAAGGGGGGAAAANNCCAC
CCNNGGCCCCANNAAGCCCCNCCCNNGGNAGGNAANGCCCGGGGGGNGNAAANNAACC
AAGGGGCCNNNCNCCCAACCCCAACCAACCNCNGGGGGGCCNAAAAAGGGNNNAAGGAA
AAAGGGCCNNCCNAAAGGGNNAAGGAAAGGAACCNAAGGGGGGNGNNNNGGNGCAAACCCC
AAAAGGNNNNGGGGGGNNCCAAGGGGGGCCCGGGGGGNCNNCCNGGAAAAACNNCCCC
CGGGGAACCCCNNAANGGGGGGGGAAAGCCCCCAACCCCNNGGGGNNNNNCNNCNCN
CCCCNNCNCNCCAAAAAAGGNNGGCCCNNGGGGGGGGAAAANANAACCANGGGGGCCAN
GGGGAAAGGCCCCCAACNNGGGGCGGGCCCNNGGGGGNNNNAAAAAANNNNNCCCCAAC
AAAANNNNNNNCCCNNAAAAAGNAAANNNAANGGGGNNNNGGGGGCCCCCAACCAAAA
AAAA

Sequence 5370

ATANGGCGAATTGGNNCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTGGTAATCATTGTTATCGTTTATTAAACAACAGGGCCACATTCAAACGCTTTC
AATTCTCTCTAAATAACAGCCTAACGCTGACGTTTTTGTGTGGCCTGTATCTCATAATTAT
TTTTATTTAGAGGAATTTGGGNATTGGCCGGGGTTT

Sequence 5371

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGACGCGGGGGCCTC
GACGGCATCCCCTTCACAGTGGATGCTACGAGCCAGATCCACTGCATTGAGGACTTTCAC
AGGAAGTTTGCCCCAAGATGCTCAGTGTGCGGTGGGGCCATAATGCCTGAGCCAGGTCAG
GAGGAGACTGTGAGAATTGGTGTNTGGATCGAAATTTTTCACATTGGCTTGTTACAAAG
TGCCGAAGGAAGTGTGGGGCTGCTTGCTCTCCTCTTGAGGGCGAAGTGTCAGGGCTGCTA
CCCGCTGGATGGGCACATCTTGTGCAAGGCCTGCAGCGCTGGCGCATCCAGGAGCTCTC
AGCCACCGTCACCACTGACTGCTGAGTCTTCTTAAGAAGTACCT

Sequence 5372

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTTAATATATTTCTCCAT
GAACTTTTTGTGAAATTCAGATCGCAGTGTGTCATTACAAATCTTTTGTCTTTCTTCTG
GTCATCTACACCTTTTGACAGTTCTTGAAGACAACGTCATCATCCACCTTCTTTTAAC
TTTGAAGTTGGCCTGAGGCTGGGATGGGGAAAAGGAGAAGGTGATTTGAGCCAACTTCA
AAGCAGTATTCAAGCAGAGACCTACCTCTCATACAAAGATAAAATACAGACAGACTACT
CAGGATGCCCCCTGAAGAGGTTCTGTAACCGTGACTTCAGGAGAGAGTTGGAAGAAAGAGAG
AGAGCTGCTGCAAGAGAGAAAAATAGGGGATCGTCCACCCGAGAACATCAACCTCCTCTT
TAGTGTCAAAAAAGCCACGGTTAGACCAGATTCTTGCGCCAACCTTGATGCAGATGACCC
TCTAACAGATGAGGAAGATGAAAGATTTTGAAGAAAGAAAGTGGATGATGATGATACTGC
AGCTCTTCTTGCAGAACTGGAAAAAATTTANNANNNNCAGGAAAATNANNNTGGGTACCT
GNCCG

Sequence 5373

CAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCCCCTCTGCGTTGAAT
GATAAGCGTGTGCGTGTTCACCACTGTGCCCTGTTCAAAGTTAGCTGGGTGGCTGTGCC
CTGCTCAAAGTCACTTGGGTGAGGGGCGCCCGTGGGAGCCAAAAATCCCATCTTACACCC
ACCCCTGCCACTGTNGGAGTTGGGCTGTGACATGCTGGAGAAAGGTGTCTTTGTCTAAT
TATTCTGCCTAAGGGCATGCCTTTTGTTAATTAGTAAAAGGAAGCCTTATTTGTGCTCTG
CAAAATGGGGGTGCTGGTTAGGAAGGTAATTTTCGTNGATTTTGAACCCCC

Sequence 5374

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCTCTG
CATTATCCCGCCAGACACTGTATTTTATGCATTTCATGTCTAGGATACAGTGTGAAAATTA
AAAAGTTTAGAGGGCAGATGCAATTGTGGCAAGTGACCTGCCAATAAAGCAGGTGCAGCT
ATAGAAGCTGGCATAGGTATATCCTTAAATGGTGCTTTCTCCCTGGGCTTGCTTTTTTGT
TGTTTTTTTCCCCCTATATTCAGAGCTCCTTGAGAAGTGATAAACACCTCCAGCTTTCTA
ACATCCTNCCCACACCATCTCACCATATCCATCTCCCAGCATCCATCTGCATTCAGCTAA
GGGCGGGAAACTGACCCAGTGCCTGTGTTGCAGACCATTTCTGAGGTCTCCACCATCCAA
GGAGGCACAAGCCGTCATTACTGTCCTCCATGCCTTCAGCAGCC

Sequence 5375

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGACTGTCC
CAAGGGTGCTGAAGAATCCAGTGGCAGGGGTTCTGGCTGCTTTCCATCTGAGTGTGGGAT
GGGAGGGGTGTTTCATGATCATTTGGATATAGCAATCTACTTCTTGAGA

Sequence 5376

GAGTGGCAAAGCAGGCAAACACGTCGTCGGTGCAGGAGAAGTGGGTGAGGTGCGGGAGGA

Table 1

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TCACGGACTGACCCCGGCACTGGCCCCACATGTACCTCGGCCGAGGTACGCGGGTCACAC
ATGACGGGTTTGGCTTCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACA
GCCTGCAGGCCAGTTCCTGCTGCACCACCCGAGCCCTGGGGTTGCCCATGGCCTCTG
TCATCTGCCTCATCAATGCTATTGGTTACTACATCTTCCGTGGGGCGAATCCCAGAAAA
ACACTTTCGAAAGAATCCTTCTGACCCAGAGTGGCTGTGCTTGAGACCATCTTCTACA
GCCACAGGGCGGAACTGCTTGGTGTCTGGGTGGTTGGGGTATGGTCCGCCATCCCACT
ATCTTGGAGACC

Sequence 5377

ACACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCCGCC
TTCGCCGCTGGCTCCGTCTGTTGGGGGGCGAACACGCCGCGGTCTCGTCGTGATGGCTC
TGAGAGATTCTCTGCGAATCTGTTTTTAGCTATCAAGTGGCATCCACGCTTAAACAGGT
GAAACATGATCAGCAAGTTTGCTTCNGATNGAAAAACTNAGCTGGTTTNGGGTAGNAAG
AAGCNTGGAGGCTTGACNAGTGGNGGTTTAAGCCCATNTAAGCAGCTGCTTGGGATTTCA
CCCCNTNNTTCAGGTTNGATACTGCCTGGATGGTTCACCTNTGGTGCGCAGCAAGTGCAA
AGCCAGTTGGGGGA

Sequence 5378

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTATGGCAAAAATATTTATTATTGAACAACTGAGTGTTTCATTCACTTCACATT
TTACACATACTTAACACAAGCAGAAGGGGAAGTTTCAGTGTCAGAAGCAGGGGTCGTTCT
CCTTAAGTAAAGACTATCANGAGAGGAGCCTTTNGTGATTAGGCAATCCAAATTTTGAN
ATTTTTTAAACACCNTTAAAAATAAAGGNTGCCATAAAATATGGAAACACCTAATATT
TTNTGAAAATNTTTTTGGAAGAATGTCTTTTTATCTTCATTGNTACTATCTNAGACATTT
TGAGGGTTATTTAACACANCAATGCCANCTGCTTAACATTNAAATTTAGACNCACTGATT
ATNTGNTCTACTCTCCTGAAATAG

Sequence 5379

CCGCGGTGGCGGCCCGCCCGGGCAGGTACNCGGGCATCTTCAATACCAGCAAGAAGCTATT
CAGAAGAATGTTGAACAGTCATCGGATCTACAGGACCAGTTGAATCATCTGTTGAAATAG
AATGACNTGNAAGAGTGCTGTAGGACTNCTTTTGCCATAATGCTGAGGAGTNAATACNTTA
CACAGCTTGNTCTNTTGGGGTTTTGGGTTTTCTATNTTCTTCTCCAAAAGTNTAAGTTA
TNAAAAAGTTNTGTGTTANGGGCCGG

Sequence 5380

ACACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGG
GGACCAAGATTAAACGGGCATCTCAGAAGAAGCACGTGAACCCGGTGCAGGCCCTCAGCG
AGTTCAAAGCTATGGACAGCATCTAAGTCTGCCCAGGC

Sequence 5381

NGGCNAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGATTCTTTGAAC
ATATTATTGAACTCCAAAATGAATTCGACCTCCATTTCAGGCTTCCTGAAATCTCTGAAGT
TGCTGAAATTTGTATATTATTTTCTTTTCCAATGCAAGATCTGCTGGTGACGGGAAATG
CTGTCTGGTTTTATTATGGTTTATAAATTAATAAATGGGCTATTTAATTCTGGAAAAAA
AAATNAAAANNTNNNGTTCCGCGGGGTCTTGAACATTTATGTTCTTTTAAAGAAACAA
AAATCAAATTTACAGAAAGATTTGATGTATGTAATACATATAGCAGCTCTTGAAGTATA
TATATCATAGCAAATAAGTCATCTTGATGAGAACAAGCTATTTGGGCCNCAACCCAATCA
NGGAAAAGAGAGCNCCACGTGATGGGAGTTTCTCCAGAAGCTCCAGTGATTAAGAGATGT
TGACCTCTAAAGGTTGATTTNAGGCCAGGCCNTGGTGGGTTTACGCCTATTAATCCCAGC
ATTTTTGGGGAGTCCGAGGGTGGGCCAGATCACTTGGANCTCANGANGNTCAAGATCAGC
CNTGGGGCAAACATGGGTGAAACCTTGCTTTTTNTTAAATTCCAAACCTTTANATTG
GGCNTTGGNNGGTGGTGNCCCATAGGCCCCACTACTTGTGGGGGCTTAGGCAGGGAGG
GATACCTTGNNCCCCGAGGTGANGGCTNCCAGGNGAGCCAAGAAGTGCCCTACTGGAC
CTTGGGCCCGTNTAAACTTAATNGGATCCCCCGGGCTNGCAGGAAATTTNNNTTNAAG
CTTTTNNATACCCNNNNANCTNAAGGGGGGGCC

Sequence 5382

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGATCCGTGCACTGCCTTCAGCTCTGG
GTTGAACTTACAGCTGGACTAGAGGATGGGAAGGCATCAAAGGAACCCAGCCACCAGG
AACTACCAGCTTAGGCTCTGACCAGGAAAGACAAGTGTTCAAAGCTTTGGGGAAACTTAA
ACCCAACACGCCATTTGCCGCGACGTCTTCAATGGGTTTGGAAACAGAGGAACAGGAGCC
CAGCATCATCGGGAAGCTGAAGGTCGCTGGCATGCTGGCAAGTAGGCAAAGAAGTCAACC
TGGTCCTACTGCTCAAAAACCTGAGCAGGGATACGAAGACAGTGACAGTGAACATGACAG

Table 1

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CCTGGACCATCATCTACAACGGCACGCTTGTNCCTCGGCCGCTCTAGAACTAGTGGGATC
CCCCGGGCTGCATGGAATTCGATATCA

Sequence 5383

NTGGGCGAATTGGAGCTCCCCGTGNNNNNGCCGCCCGGGCAGGTCAATTTGATAAGTTTT
GACATACACTCTTGAAAAACCATTACCACAGTNNAACAACAAGCAAAAAAACTAAACA
TTGTCTATCACCTCCTACTTTTTTCTCTATAATCCGTCTCACCTGCCCAAGCCCCATATA
CCTTGGTATGCTTTGTTACTTANATTAGTTTGGGATTTTCTAAACTNTATGTAAATAGA
ATAATACATTATGTATTATTTGNTGTCTGGATTCTGNNGGCTCAGCATAATTATTTNGAA
TTTCACGTTTTTGCATACATCAGTANGTTCATTTTCATATTACGNNNTGGTGTATATTG
CATACAAATATTACAATTTGTTTATCCATTTCACTTGCTGATGGGATATTTGGGGTTGGT
TNCCAGTTTTAGCTATTTCAAATAAAAAATAATGGGGAACATTTATTTTACAAGTCTTNA
TATGGGATGTATGCCTT

Sequence 5384

CCGCGGTGGCGGCCCGAGGTCTTTTCTTTTCTAAAAAAGTTTTTGGTTAGGGATTTGGT
TTTTGGGTTTNGNGTTTGNNTTNTCTTTNCTCTCTCAGAAAAAAAATTTNATGCTTTAA
ATNAAATCCANAGACACACCCTTTCCTGCTGATGCANAAAAGGGAAAGGGTCTTGTT
CTTGAGAATTTGTTTCTGATTTAAACAAACNAGACTTAGTTTAAATAAAAGAAAGANAAAA
ACANAAGATTCCCAGGTGTATGTGCTTCTTCTGCAAGCAGAGAGGCAAATGTTAATGA
CAATTCCATATNCCAAAAGACACATTTTTTACTTAAAGTTTTGTCCNTGTGTTAGGCAAG
TCTGAGCACCNAGTGATCCACAACGCAGNCAACAAAAGCANCCAGATAGCANTGTACCTT
GCCCCGGGCGGN

Sequence 5385

CGCGGTGGCGGCCCGAGGTACGCGGGGGGGTGGCCTGNGCGGCGTTGGTCCCGGTGCGTCC
TGTTCTACAGCTATGGCCCCGGGCCAGCTGCAGCTTTCCGCCCCGCTTGGGCGCCTTGTCGG
GAGCTGCGGCCTTAGGCTTCGCTTCTACGGGGCGCACNGNCCCAATTCCTCAAATGCCTAC
GGGAAAGGAGCTGTTTGACAAGGCCAACAAACACCCTTCTTACACAGCCTGCCCTGTTA
GGGGTGCCCCATTGCAGAAAGCCACTCTGGGCTGGGTTATTGCTAGCTTCCGGAACGACC
TTATTCTGCACCAACTTTTACTACCAGGCTCTGAGTGGAGACCCAGCATNCAGACTTTG
GCCCCTGCGGGAAGGGACCCCTTGCTTCTCTTGGGCTGGCTTGCTTNGCTCTTTGAGCTN
CCTTTTGCTTAATTACTGGGTTTTCTGGGCAAGTTTTTTTTTTTAAANAGTTTGAGTNA
AAAAGAAGGA

Sequence 5386

CGCCCCGGGCAGGTACATTGAGCTCTCTCTGGCATGCTCCCCACTCTAGTTAAGAGGGGCT
GGGGTATGGAGAAGACCGTCCCAGCCCCGGCCGCTGCAGCCTCCTACTCCTGGGCCCTCCTT
GCGGGTCAACTTGATAGATCTCAGTGGGTCCGTCACATGGGTGATAAGTGGGTGGGTGAGC
TGGAGTTCTTCCCCACTATGGACACCCAGATCGCCATTGGACTGGTCTTCTCATAGTTTT
TATGGGATGGTGCATACAAGAACATCAGAGCAAAGACATACAGATTCCACATCCCATAGA
TGCCTGTGAAAAAGGCACTTGTCACCTTGGACTGTGATGCCGCCCCATTTCCAATGGCCTT
CCGTTACCTGACTAACGATGAAAAANATGACAGTCATGGCAACNCAGGCCAAGGTGATAA
GCATGANGAACTTGAACCTA

Sequence 5387

AGGTACGTGTCCAGGGGATGTCGCCAAAGCCTTTGGAGCTGGAGCAGATTTTGTCTATGCT
GGGAGGAATGTTTTCGGGTCATACGGAGTGTGCTGGAGAAGTGATTGAGAGGAACGGACG
GAAGCTCAAGCTCTTTACGGATGAGCTCTGACACCGCCATGAACAAGCACGCAGGAGGAG
TTGCTGAGTACCTTTCTCGGGGTGTCTGCGTAACTGCCAGACTTGCCTTGTTTGGTCA
GATGACACCTCCTCTGGGACTGGCTAGCCAGCGTTCATGTCTACATTATTGATCTCGTCT
TCCGGTGTGTGAGTCACTCACCTGTGAGCTCCTAGAGGTCAGCGACTAAATCTGGTTCCA
TGGGGTCTTGGGCCCTCGGAGCCCTAACACAAGGCCCACTACTCAGTTGGCTCTTAATC
AAATCTGTGAAACCAAATTATAAAAGTTGCTTTTCTACTAGACCTTGTTGGGACACCAAN
GAGCCCGCGTCGGTTGCTTAACTT

Sequence 5388

CGCCCCGTCCAAGACTATTTGTCTTTGAGCTCTGTTCTCTCACACGTGTCCGGCCTGGGC
TGGCTGGCCTCCTACCTGCCCTCCTTCCCTCCGTGTGCCCAAGTGGATTATTGCCCTCTAC
ACTAGCAAGTTCTAACCCCTCTGGCTGACACTACGTCTCTGCTTGTCTTCCCATTTGGACT
TGGTGGTTTGTCTGTCTCAGTGAAACAGCAGCCTTTCTTGTTTACCCATACCCTTGATA
TGAAGAGAAGCCCTCTGCTGTGTGTCCCGTGGTGAGTTCTGGGGTGCGCCTAGGTCCCTT
CTTTGTGCCTTGGTTTTCTTGCCTTCTTTTTACTTTTTGCCTTAATATTGAAAAATGCT

Table 1

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CTTGGAGCTAATAAAAAGTCTTATTTCTCTTTNGGAANAAAAAATGNANGNATAANATAA
GTACCTGCCCCGN

Sequence 5389

CCGCGGTGGCGGCCGAGGTACGCGGGGCTCCCTGCCTCAGGCTCTCACCCCTCCTCTCCTG
CAGCTCCAGCTTTGTGCTCTGCCTCTGAGGAGACCATGGCCCAGCATCTGAGTACGCGGG
GACAATTATGTGTCTTGGAGTTGCTCTTCTCGAGGAGTATCTTTCAGAAAGTTAAGAAGG
ATACCCAGGAATTGAACTCAGCTCCACACCAAGCAGACGGTAATAGACATCTACAGAACT
CTCCACCCCAAATCAACAGAATATACATTCTTTTCAGCAGCACACCACACCTACTCCAAA
ACTGACCACATAGGTGGAAGTAAAGTTCTCCTCAGCAAATGTAAAAGAACAGAAATTATA
ACAAACTGTCTNTCAAGACCACAGTGGCAATCAAACCTAGAACTCAGGATTAAGAACTC
ACTCA

Sequence 5390

CCGCGGTGGCGGCCGAGAGCTAATTCCTCTTGGCTTCAAAATCCATCCTATGCTTGGAG
ATGCTGGGGCTGGGATTCTACAAACCACATTCTGGCTTTGTGCCCTGATAGGCTCAGCCC
CCAGGGGGAGCTAGAAGGAATCTGCTAGGCTAAAGGAGGAAGTAGGAAGTGGCCCCTTGC
TCACTTCCTGTTTGTCTTCTGTTCACTTCTATCAGCTTCCTGTCCCTTGCCAGACAGGT
TGCTAACCCTAGCAGTGCTTTTTCTTCAACCAGGCAAGTGGCAAACCTCCTCCAGAAAAC
ATTTTCAATGCAGTTTTTGGTTTTTTCCAACACTCACAAAAGCCAGCCTTAATGGGGGG
GTCCCCCTTCAGAGACACCCAAACAA

Sequence 5391

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGCAAGGCTGTCAACAGTCT
TGGAGAAGCCACCTGCACAGCAGAGCTCATTGTGGAAACGATGGAGGAAGGTGAAGGGGA
AGGGGAAGAGGAAGAAGAGTGAAACAAAGCCAGAGAAAAGCAGTTTCTAAGTCATATTAA
AAGGACTATTTCTCTAAAACTCAAAAAAAAAAAAAAAAAAACTCAAGATAGTAAAAGCACCTA
GTGTGATAGATTATCGGTTAGGTCATTTGTGGGTTGATTCTTCANAAACAGCAGTTGATA
CCTAGCAGCGTTATTGATGGGCATTAATCTATGTTAGTTGGCACCTTAAGATACTAGTGC
AGCTAGATTTTCAATTTAGGGAAATCACCAGTAACTTGACTGACCAATTGATTTTAGAGAGA
AAGTAACCAAACCAAATATTTATCTGGGCAAAG

Sequence 5392

CCGGGCAGGTACCATCATCCGATGTATAGCCTTTCCAGCGAACTTTGTAAAGAACTTTAC
CCTCCTCGGTCTTCATGTCCAGGATCTTCTCCACCTCGAACACATCCTCTCCGTCCTCCT
CACTGTCGCCAAAGGCCTCCGCTCCTCTCGCGGCTGCGTCATTATCTTTGCCCCACTACT
CCAACNTCTTCTCGACTTCGGCCAACCTCCTCAGTGCTGTGCGCAGCTGACACAGGGACT
GCGGTCACCCCTTGCTCCCTCCGCAACCTGCTCCATCCTAGCAGCTCCGCAAACCGCCGAG
AAAAAACCCCGCTGCGACAAACACCCCAAGCAGCCCCCGCGTACCTCGGGCCCGCTCTTA
GAACTAGTGGGATTCCCCCGGGCTGCAGGGAATTCGATATTCAAAGCTTAATCGATACC
CGTTCCGAACCTTNGAAGGGGGGGGGGGCCCCCG

Sequence 5393

ACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTTTTCTCGTCCTT
TCCCCAGGGTGACGTAACCCTCAAGCACTAGGACCGTGCGGAATCCAGGCTGCGATGGC
ACCTTCATTTACCGCCCGCATTCAAGTTGTTCTCTTGCGGGAGCTAGGCTTTCTCATAGG
CTTAGTAGGCCGAGCAGCTTTAGTCTTAGGGGGCCCAAAGTTTGCTCAAAGACCCCT

Sequence 5394

CCGCGGTGGCGGCCGCCCCGGGCAGGTACTGACATCAAGGACTCAAAGCTTATTACCACC
TGCTTGAGCAGGTGGCTCCAAAAGGAGATGAAGAAGGTGTTCTGCTGTTGTTATTGACA
TGTCAGGACTGCGGGAGAAGGATGACATCCAGAGGGCAGAATGCATGCTGCAGCAGGCGG
AGAGGCTGGGCTGCCGGCAGTTTGTCAACAACACAGATGTTGTCCGAGGGAACCCCAAGT
TTGAACCTTGCTTTTATTTGCCAACCTTTTNNACAAAATACCCTTGCCCCTGCACAAAAC
CAGAAGAACCANGACATTTGACTGGGGGGGGCTCTTTGAAAGGTGAGACCAAGAGAAAG
AGCGGACATTTTGTAGGAAGTGGATGAAACTCCCTTGGGGTGTTAACCCTTCGAGTTCAA
TTCATTTTGTACCTNNGGCCGCTTNTAGAACCCTAGTGGGAATCCCCCGG

Sequence 5395

CCGGGCAGGTACGCGGGTGATACCTTCCGAGTGGAGTTTCTGGTGGTCCCTGTGGGAGGC
CTCTCATTTTGTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACCTTCTCCATC
TACCTGGAGTCCGTGGCTATCCTTNCGCAGCTGCNTATGATCAGCAAGACTGGGGAGGCC
GAGACCATCACCAACCACTACCTGTTCTTCTGGGCCTNTATCGNGCTTTGTATCTTGAC
AACTGGATCTGNCGCTTNTACTTTGAGGGCTTCTTTGACCTCATTGCTGTGGTAGGCCGG

Table 1

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CGTAGTCCAAGACCAATCCTAATACTGTTGACTTCTTTNTAACTTGNAACCTNCGGGCC
CGGNTTCTTANGAAACCNTAAGNTGGGAATCCCCCCCC

Sequence 5396

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATTAGTGTGCACAGA
GATCTCTGTAGAAAGAGTAGCTGCCCTTTCTCAGGGCAGATGATGCTTTGAGAACATACT
TTGGCCATTACCCCCAGCTTTGAGGAAAATGGGCTTTGGATGATTATTTTATGTTTTAGG
GACCCCCAACCTCAGGCAATTCCTACCTTCTTCACCTGACCCTGCCCCACTTGCCATAA
AACTTNAGCTAAAGTTTTGTTTTGTTTTTCAGCGTTAATTGNTAAAGGGGGCAGCCAGT
TGCCCAAATTTTAAATCCAGAAGGAATAAAAGCCTTAAGGTTCAAAAAGTTTCAATAAG
AAGTTTCCCCCATTTGGAACCTTATTATTGAACCTGGGCCCACCACCAGGGGATCCTTTTT
TGTTANTTTTAAAGGGATTCTTCTTGAGGATTTTTTTGCTTTGGAGCCAAGGGAATTAAG
AATAAAGGGCTGGTTTCTTTTAAAAATNGTCTTGNAAAATTGGGAAACCAANAATTTCAA
AAAAAAAAAAAAANCCC

Sequence 5397

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGT
TTCGCCCTTTCACCCAGGCTGGAGTGCAGTGGGGCGATCTCGGNTCACTGCAACCTTCAC
CCTCCAGTTTCAAGCGATTCTCTTGCCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACC
CACCACCAAGCCCAGCTAATTTCTGTATTTTAGTANAGATGGGGTTTCGCCATGTTTGG
CCAGGCTGGTCTTGAACTTTTTGACCTNAGGTGATCCACCCNGCCTTNAAGNCTTNCCCA
AAAGTGCNTGGGATTACAAGGGGAAAAAGGCACNCGNGGCCCAAGCNCTGCACAGTNACT
ATTTTTGAGGACTTTACTTAATTTTTTGAAACATGGATTTTTTTTTCTTTNAATTCTTCACT
TCCAACTTTTTACCCTAAAATAAATTCNATTTTTTAAAAAAATTGCAAAAATAAATCA
NCCCCTTTTTTAA

Sequence 5398

GGCCCAGGTGTGTAGGCCACAGCAGCCGAGTCCTGAAAGGCTGCAACACCCAGACCTCC
AGGAGAGGCCAGGCCAGGATGCCTCGCCTGTTCTTGTTCACCTGCTAGAATTCTGTTT
ACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAAGGACGAATGTTATTAA
TTATGCGGC

Sequence 5399

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTNCTTNNCTCGAAAAAGCGGAGTA
AGGAGAACTAACNGTTNNCTTANCTNNAGCCATTCAAAATAGGACAGTNTCTTTTTTCC
ATTATGTAAAGATCCAGAGTATATCNCAATAACCGGAATAAATTCTTACAACNGGAATA
TACAAAACATTTTGAAATNTTTTTTCATCTACTGATTTTTTATATAAACAGGATTTTTT
AGGAATAATTTATACACAGAAAGTCATTTTATGTAACAAATTGGCCATGTTATTACCTTT
TTTTTTCTTACTTAAAAAAATTTTTTTTTNAACANGAAACTCANAAAATGCATTATTGTC
GGTGCATCCATTCCATACCGCCTTCTGGTTTGATTTTTTTTTATCCCAGGACGAAGGGATC
CCANAGGTANACAAACNNTGGCAAACCTNNTNACCTAAACCTNACTGGNTTAGAAAGCAG
ACAGGTGTTTTTACCCGGGCNGTNTNNTCCACCGGTGGGATGTGTGTGCAACGCCCAAAC
ATCCAAATGAAAAAGTTGG

Sequence 5400

ATAGGCGAATTGGACTCCACCGNGGTGGCGGCCCGCCGGGCAGGTACCTGATTTTTTCATG
AGCCTTACAGACACACAGAGACACATACACATTGATCTTAAAATTATTCTCAGTCACTGA
TATGCAAAGGACCACACTGTCTCTGCTTNCAGGAGTATTTTAGAAATGTTNCACAATTTA
CTGNAGACATANAGATGATGCTGCTGCTTAGGTGCCTTTTAGCAAGCTATGCAAACAATC
CTGATAAAACAAGATACATAGATGAGTCAATCTGGCTTCTGAGAATTTACCAAGTGAACA
GAGTACGCNNGGGGATGAATCGTGGACTACAAGGCGTTCATCC

Sequence 5401

CCGCGGTGGCGGCCCGCCGGGCAGGTACGGCCAAGGGCTATTGGTTGAATGAGTAGGCTG
ATGGTTTTCGATAATAACTAGTATGGGGATAAGGGGTGTAGGCGTGCCTTGTGGTAAGCCC
GCGTACCATCTTTTCCAGAGAGAGAAAGTGGAGGTCCAGCTGCCAGAGCTCTACCACAAA
ATAGGTGTTGGCGCAATGGCATGGTCTCCACTTGCTGTGGAATCATCTCAGGAAAATAC
GGAAACGGGGTGCCTGAAAGTTCAGGGCTTCACTGAAGTGCTACCAGTGGTTGAAAGAA
AGAATTGTAAGTGAAGAAGGGAGAAAACANCAAAACAAGCTAAAAGACCTTTCCCAATT
GCNGAGCGTCTGGGATGCACACTACCTCAGCTAGCTGTTGCGTGGTGCCTGAGAAATGAA
GGTGTGAGTTNTGTGCTCCTGGGATCATCCACTCCTGAACAACTCATTGAAAACCTTTGG
TGCCATTACAGGTTCTCCCAAAGATGACATCACATGTGGTAAATGAGATTGATAACATACT
GGNGCAACAAGCCCTACAGCAAGAAGGACTTTTGGATCATAAGGGCAATGCATGAACCAC

Table 1

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AANAAGCTGCATGGGTAA

Sequence 5402

CCGCGGTGGCGGCNCGCCCGGGCAGGTACGCGGGGACACAGGGCTCTTGCTCTNGCAGAA
TCCACAGGTCTTTCTTGAGGAAATNTGTNGACAGAACTTTGTGCTGCGTTTTTATCTANG
GAAGGAACAGANNAGTGTGCTCCTAGAAATCTAGCACTGGANAAACGAGGAAAATTCTT
CCAGCGATGGTCTNCCACTCANAGCTGAGGAAGCTTTTCTACTNAGCANATGCTGTGTGT
TTTGATGTTGACAGCACGGNCATCAGAGAANAAGGAATCGATGAGCTANCCAAAATCTGT
GGCGTTNAGGACGCGGNGTCAGAAATGGAGCTGGTGAATATGCANGTTTTGATGAGACGC
AGCCAACAGCTGAATCTGGTGGAAAAGGAAAAGTNATTAACTTTTAAAGGAAAAATTTC
ATTTTAAAGAAAATAA

Sequence 5403

CCGCGGTGGCGGCCCGGGCTGGCGCGGTGCATCGTGGGCACTGTAGTTTCCGCCGCGTTT
ATGGCCGCGTTAAGTCTGAGTGCCGCTTTGAGTTGTTGAATGAAGTGAAGTTCATTTGTC
AGCGTTCGGTACCT

Sequence 5404

AGGTACGCGGGGAGAGACCAGAGCTGCCACCGCTGCTGCTTCCAGGAGTGTGCAGGTGGC
ANCTGCCGCTGAGCCCGCGGCGGAGGATGGCAGGNCTTGTTCAGAAGGCTTGAGGGTCC
CCGANTGCACCGCCCTNCCACCAATTCTGGTTTTTCTGTNGGAGCCCAAGGAGCAAGGG
CANAATGAGGAACATGATGTTTCTTACCGACAGTTACTCATGACGTCTCCATCCAGGACT
GAGGGGGGCATCCTTCTCCATCTAGGACTGGGGGCATCCTTCTCCATCCAGTATTGGGGG
TCTTNCTCCTCCATCCAGGACTTGTGGGTCATNCTCTTCATCCAAGAACCTGAAGGGTGT
CCTTTTCTGCGCTTCTTGGATGGCANTCTTCCCTTCATGTTTATAAGNGACTTACCAT

Sequence 5405

TATACGGCGAATTGGAGCTTNCCGCGGTGGCGGCCCCGCCCGGGCAGGTACTGAGTATAAA
ACAATATAAAACAATATGAGAAGGTCTCTCTTCCCTCAAGAGTGTATGACTTTGCTGC
CCAGGATGATCTTGAAGTCTTGGCCTCAAGCTATTAATTTCTTCCCAACTCAGCCTCCCA
AAGTNTGGGATTACAGGCATGAACCACAGCGCCAGCTTAACAGGATTTTTTCAGAGAGAA
AAAGTTTTTTAATTTTAATGAAATCCACCAATTTATCTATTTTTTCTTTTACGGCATGTG
CTTTTGGTGTAATGTCTAAAAACTATACCTACGCCTAGGTTGTAAAGATAGTCTGTTTTTC
AGTTTTATAGCTTTCCATTTTACATTTAAGATATATGATCCATTTTGAGTTAAGTTTGTA
TTACATGTAAGGTGGGGTTCCCTTGTTTTGGTCTTTGACAAATGGAAGTCCACAACATT
TATTGAACTCTTCTTCCCTCATTGGTTTTAAGATAAATCCCGTTGGCCATACTTCTGAA
TGTCTATTTATGGATTCCCTATCTTATTTTATTGATGNGTATTTTTTGGNCTCTCCTCCAT
GGATACATGAAGGAAANGGCCCTTGACCAAGGCAATGGGGAAAGGGGCTGGGGGGCCCCC
CAGAGAAAGGAGAAGGCNCTAAGATCAGGCTCAACAGCTTCTGGATCTGAGGCCCCGGNA
ATATTTATNGGGTNAACTTGGCANNCCCTGGGCCTAAGTAGGACTGGTTAACANTGAAAA
GGCGTNCTGGGGGCAACCCAAAAGGTACCTNNGCGGTTTTAACTAGNGGATCCCCCGGCT
GNAGGAATTCNATTTAANCTTTTGATNCCGCNACCTNNAGGGGGGCCCCG

Sequence 5406

TGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGACACCATCCCTTCCATTGGACTGGCT
TTGTTGGAAGAAAAGCTCAGATATAGCAATGAGAAATACCAAAAGTTTAAGGCAGTGGAA
GAAAGCCTGCGTAAAGAGCTGGTGGATATGCTAGGTGATGATGGTGTGTTCTTATATCCC
TCACATCCCACAGTGGCACCTAAGCATCATGTCCCTCTAACACGGCCCTTCAACTTTGCT
TACACAGGTGTCTTCAGTGCCCTGGGTTTGCCTGTGACCCAATGCCCACTGGGACTGAAT
GCCAAAGGACTCCCTTTAGGCATCCAGGTGTGGCTGGACCCTTTAATGATCATCTGACC
CTGGCTGTGGCCAGTACCTTCGGCCCCGCTCTAGAACTAGTGGGATCCC

Sequence 5407

CCGCGGTGGCGGCCCGGCATGCTGCAGACCCGTCAGGGCGATGTACGCGGGGCTCTTCCTT
TCTCCGCCATCGTGGTGTGTTCTTGACTCCGCTGCTCGCCATGTCTTCTCACAAGACTTT
CAGGATTAAGCGATTCTTGCCCAAGAAACAAAAGCAAAATCGTCCCATTTCCCAGTGGAT
TCGGATGAAAACCTGGAAATAAAATCAGGTACCTGCCCCG

Sequence 5408

CCGGGCAGGTACTACTTCTCCAACTCATAGAATTTATGGACACTTTCTTCTTCATCCTG
CGCAAGAACAACCACCAGATCACGGTCTGCACGTCTACCACCATGCCTCGATGCTGAAC
ATCTGGTGGTTTTGTGATGAACTGGGTCCCTGCGGCCACTCTTATTTTGGTGCCACACTTA
ATAGCTTCATCCACGTCCTCATGTACCT

Sequence 5409

Table 1

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CCGCGGTGGCGGCCCGCCGGGCAGGTACTCAGAATTGACCAATTCAGGAGGTGTAAAAA
TAAACAGTGTTCTCTTCTCTACCCCAAAGCCACTACTGACCAAGGTCTCTTCAGTGCACT
CGCTCCCTCTCTGGCTAAGGCATGCATTAGCCACTACACAAGTCATTAGTGAAAGTGGTC
TTTTATGTCCTCCAGCAGACAGACATCAAGGATGAGTTAACCAGGAGACTACTCCTGTG
ACTGTGGAGCTCTGGAAGGCTTGGTGGGAGTGAATTTGCCACACCTTACAATTGTGGCA
GGATCCAGAAGAGCCTGTCTTTTTATATCCATTCCCTTGATGTCATTGGCCTCTCCACCG
ATTTTATTACGGTGCCACGCAGTCATGGATCTGGGTAGTCCGGAACAAAGGAGGGAA
GACAGCCTGGTAATGAATAAGATCCTTACCACAGTTTTCTCATGGGAAATACATAATAAA
CCCTTTCATCTTTTTTTTTTCTTTAAAGAATTAAAAGTGGGAAATAGAAACATGAACTGA
AAAGTCTTGCAATGACAAGANGGTTTCATGGTCTTAAAAAGATCTTTATGTGGTTGAAGAT
GAAATCATTCTAAATTAACCTTTTTTTAAAAAAAACAATGGATATTATGGTCCCGGGN
GGTGNAATTAAAAAAAATCTTTACTTGGATATTCATGTAATATATAANGGTTNGGGNA
ATGNACTTTTATTAGGNAAACTGGCTTAACTTTCATNTGTGTAAGTGGAANCAAAGNG
NCATAATTTTNTTATTTTGGGNAATAATGGNTTTATAAAATTTT

Sequence 5410

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTTGGGACAAGATCTTGCTGTCACCCAGGATGGAGTGCAGTGGCA
TGATCATGGCTCACTGCAGCCTTGACCTCCAGGCTCCACCTNAGCCTCCCAAGTAGCT
GGGACCACAGGCACGTGCCACCATGCCAGCTAATTTTTTATTTTGGTAGANACAAGGNTT
CACCATGTTGCCTAGGTAGGTTTCAAACCTCCTGGACTCAAGTGATCCTCCTGCCTCGGCC
TTCCACAGNGTTGGGATTACAGGAATAAGCCACTGNGCCCGGCCCTTTTTCTCTTCTGTA
ACAGAGTTTATTACTGCCTAGCTAGCAGGTTATTTGGCCCTCACATGTGTTGAGGCAAAC
TCTATACTATATTCTTACTC

Sequence 5411

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAACCACCTGGGAAAACCTTCACAG
AAAATGAGAGTTTCAGATACTGAGAATAGAACCCTAAGAAGCAGAAAAGAGAAGATATT
CTCGTGGGGGAGAACAACGGCTGGGAGGGGAGGAAGCATGGCCAAGGCAAAGAGGTGGGC
ATTAATAAGAACTGCTTCTTGCTGCCGCCATATGAAGAAGGACGTGTTGCTTCCCCTTC
CTCCATGATTGTAAGTTTCTTGAGACCTCGCCAGCCATGCTGAACTGAATACAACATGTT
TAAGACCACAGAACATCTGCATAGGCTGTAAATTTCTGTTGAATGATGGGATGCAAAGATG
GAAGACAGATGGGATAGAGGAAAAGACAGAATCAGATACTGGATGAGTTTAGTACCTGCC
CGGGGCGGCCGC

Sequence 5412

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGGCT
GAGGCAGGAGAATCGCTTAAACTTGGGAGGCAGAGGTTGCAATAAGCCGAGATTGCTCCA
CTGCTCTCCAGCCTGGGCAACACGAGCGAACTCCATCTCAAAAAAAGAAGAAGAAAA
GAAAAATGGCAACCCAGGTATGCAACTAGAAAAATCCAGACTATGGAAAAACCTGCAAG
ATAAAAGATCAATTTCTTCAGCAAATAAATTGTCTATGGTGTGTGTGTGTGTGTTGAAG
TGGGGAGTTAGAGGCGTGAGTGAGCATAAGCCAACATATTCATTATTATTATTATTG
TTAACTTTTAAGTTCAGGGGTACCTCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGC
TGCAGGGAATTCGATATCAAGCTTAT

Sequence 5413

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGCCCAGCTCCTTATAGA
GGGTCTCCATGTTAGAATGCATCATCCGCAGCTTGTATACTGTTCTGTGCATCCTTCA
CAAAGCTGGTCATTTTTTCAACAACTTGTCTTTTTTCATCTGTGGCAGCTGGGAAATTCT
GAACATCACGTTCCACATCAAGAAATTTGTTTCTTCATCTGATCTAGGTTCTTTTGCAA
GTTTTTCAAGCAGAACTCGGCTGGCTTTCTNCACATGGGCAAAGCTCGTCTGGAACTT
GAGGACATCGGGGATAGTCAATTCTTCCCCGCGTCTGCCCCGGGCCGCTTCTTAG
AACTAAGTGGGATCCCCNNGGCTGCAAGGGAAATTCCGATATTCCAAGNCTTTATCGGA
TACCCGTCGACCTCGAANGGGGGGGGCCCGGTACCCAGCTTTTTTGTTCCTTT

Sequence 5414

ACTCCTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGT
GGTTGGGGGAATTGGAGGCTTCTAGGAGAGGAGCTGGAGGCCACGGTTCAGGAAGTCCTG
GGGAGACTGAAGAGCCACAGTTTTTCCAGTCCACATGGGACACTGTTGCCTTCATTGTT
TTCCTCACCTTCATGGGCACCGTGCTGCTCCTGCTGCTGCTGGTCGTCGCCCACTGCTGC
TGCTGCAGCTCCCCCGGGCCCCGAGGGAAAGCCCCAGGAAGGAAAGACCCAAGGGAGTG
GATAACTTGGCCCTGGAACCCTGACCCTGTGTCTCCTGCCCGGTGGCAGTAACAAAGCCT

Table 1

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TCTGTCTGCCCAGAAAAAANAAGAAAAAAAAAAAAAGGTTCTTNGGCCGCTCTANAAC
TAGTGGGATCCCCGGGCTG

Sequence 5415

ACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGCC
GCCCATTGTGTCCTTGCCCAGGACCCCGAGAACCAGGCGCTGGCGAGGTTTTACTGCTAC
ACTGAGAGGACCATTGCGAAGCGGCTCGTCTTGCGGCGGGATCCTTCGTGAAAANGAATT
TTTTGCCAAGGTGCTCTTNCCTTCTTGTCGCCGGGCTNACCTGCACCCANCGCCNAAAAN
CCTTNAAGGGANNACNCTNGANCNTACCTTGGCCNNTNTANAAC TAANNNGNNTCCCCNGG
CTNGANGNATTTTCATNTTAANCTTATTNATACCCNTCCGACCTTTNANGGGGGGCCCCG

Sequence 5416

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGG
GGGAATGTAAGGGCCACTTCAGCAACAGAAAGGAGTGGTGGAGCGGCTTCTCATCAGAAA
AACAGAACTTTTCAGTGCCTGACTTGAGATGTAAACTTGATGGGAAAAATTATTTTAGTTT
TGGAAAGATCCTCTTCAGAAATACCACTATCTTCCTGAAGTTTGATGGAGAACCTTGTGA
CCTGTCTTTGAATATAACCTGGTATCTGAAAAGCGCTGATTGTTACAATGAAATCTATAA
CTTCAAGGCAGAAGAAGTAGAGTTTGTATTTGGAAAACTTAAGGANAAAAAGAGGCTTT
GTCTGGGNAAAATNTCAAACATCATCAAAAAATTGGTTCCNAGAAACTGCCAGTTGGAAC
TTCTTTTAAAACCAAGACCTTTTTTCTTGGAGA

Sequence 5417

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGAGTGAGGATTT
TCTGCAACCTGCGTTTGTCCCTCCAGCATCTGCTCTGGCTCCATGGCGGACCCTGCAAGT
CACAGTCCCCGGATACCAGTCCGCGCCCAAGCCGTTTCGTTCTTAAGAGCCCTGCACTGCG
CCACCAGCTCCCAGCACAAACAGCTC

Sequence 5418

CCGCGGTGGCGGCCGAGGTACNAGGGCATCCCTGGGTGGCCGAGCCCATCAGGCCACCC
CAGGCTCTAGTGAGGAGTGCGGTGGCTGTCCAGGACATCTGAGGACATCGCTGTGGGGCA
GGCATTGTGGGATGTGTGTAGCTCAGTGGAGGTGGGGAGGAACGGGGAGAGCAGGTGCTG
GCAGGGAATGAAAGCCCTACAGTGTAAGAGCTGGATGAACTTCAGAGCTCATCTAGTCA
AAGTCCCTCATTTTACAGATGGGGAACTGAGGCACTGAGTGGGGAACATGACTCCCCCT
CNGAGACAAAANCCAGGGCTGGAAAGCTGTGTCTTCAGAGCCTCAAGCCCTATGCTTTTT
TTCTCCTTANAGTATTGCTGCCTTCCA

Sequence 5419

AGGTACAAAGATGAATGCAACACGGTGCCCGCCCTGAAGAGCACATAGTTCAGCTGCCGG
CCCCGCGGCGGCAGCGCGCTGCAGCCCAGGCTGATGTAGACAGGCAGCTTCTCCTGGGTC
AGCGACAGCCGGTACTTTTTTTTTTTTTTTTTTTTCGGCCTAAAAGCGGTAGAAATTTAA
TAAATAGATATGAATTGATTGATTCATTAATAGTATAAAAAGAAAATTTG

Sequence 5420

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCTGCCCAAGG
GCGTTTCGTAACGGGAATGCCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGGGAT
GAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGA

Sequence 5421

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTTC
TGCCCTGCCTGAGGAGGAGGACACAGCACAAGGGCACATTGCCCATGGCTGGGAACATGA
CCCAGCCTGAAAGATACAGGGGATCATGTTAAAAATAGCAGTATTATTTTTCGTCTCAAT
GGTATTGTAAC TAAGTTATTTACTCCTCCTGCTCCTCACCCCTGTAGGGAAACCTTGGAG
AGGAGAAGTGGCAGGTGGGCTGCCTGCTGTGTTAAGAGGACTTAATTTGTGATGTAAGGC
ACTTGTCAGGAATGGGGGGG

Sequence 5422

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TT
TTTTTTTTTTTTTAAAAAAAANNTTNTTNNNNAANNAATNGTNAANTTTNAAAAAA
AAANNNGNNTNNTAAAAAANNTCCCTTTTNGGNTTAANGNNTTTTNTTAAAAAAAANNA
NCCNNAATTTNGGGGAAAAAANNTTTNNGGGCCNTNATTNAANNATTTNGGGGGNTTTTT
TTTTTTTNANCNTGGNNNNNNNAANNNNTTTTTTTTTGNNNTNGGGGGGAANCNANTT
TTCCNAAANGTTAATTTTTTNAAGGGGGNGGGTTTTTNAAAACAAAAGGGGGGNAAAAANN
NNNTTTTTTNTTGNAACTTTTTTAA

Sequence 5423

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GACTACTATAGGGCGNTCNGANCTGGNGGCGGCCGAGGTACGCGGGGCACTCCTCTCTCT
CTTCCTCTCTCACACGTTCTCCAACCCAAGGAGGCCAGACAGAGGGACGTGGTCACTCTC
TGAAAAGTTCAACTTGAGAGACAAAATGCAGTGGACCTCCCTCCTGCTGCTGGCAGGGCT
CTTTCCTCTCCCAGGCCCAGTATGAAGATGACCCTCATTGGTGGTTCCACTACCTCCGCA
GCCAGCAGTCCACCTACTACGATCCCTATGACCCTTACCCGTATGAGACCTACGAGCCTT
ACCCCTATGGGGTGGATGAAGGGCCAGCCTACACCTACGGCTCTCCATCCCCTCCAGATC
CCCGCAAGGACTGTTGGAGGAGAGTTAGCCCAAGTATAGGCTCTGCCCAGATGCCATCAC
ATCCCTGATACTGTGTATGCTTTGAAGCACCTTCCCTGAGAAGGGAAGAGGGGATCTTTG
GACTAGGTTCTTGGCTCCAGACCTGGAATCCACAAAAGCCAAACCAAGCTCATTTCAACA
AAGGAGCTCCGATGTGAGGGGCAAGGCTGCCCCTGCCCCAGGGCTCTTCAGAAAGCATCT
GCATGTGAACACCATCATGCCTTTA

Sequence 5424

CACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTAAGCT
NGACAGCTTCCTAATAATTAAAACTCTTCTGATGCTATCAGTGGTTATGTTCAAAAATG
TCAATTTTAAATATTATAGAATAAAATGTGCCAACATTTTAGAAGATTTGCATAACTCA
GTGACCAATACTTTTCAAATGACCAAACATAATGTTACAAAATCATGCATGGATAAAAG
GTGCATTGAAAATGCAAATGAGGCCAGGTGTGGTGGCTCATGCCTCTAATCCCAGCATTT
TGGGAGGCAGAGGCTGGAGGATCACTTGAGGCCAGGCATTTGAGACCAGCCTGGCCAACA
TAGCAAGATCCTATCTCTAAAAATAATAAGAAGTAAGAAGAATTAGCCAGGCATGGTGGC
ATGCGCGTGAAAGTCTTANCTCTTGGGAGGCTACNGTGGGAGGATGG

Sequence 5425

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTGNNTC
ACTNGGGAAGGCCAGGACAGACAGGGNTTCACCANGTTGGCCAGGCTGGTCTCGAACTCC
TGACCTNAACTGATCCACCCACCTTGGCCTCCCAAAGNGCTGGATTACAGGCGTAAGCCC
GCACCCANCCAATATAGGACATANNTTNAGNATATAAGNNCNTNCTGCNNCNCNCCAGTAA
AGCAATGTAATCTATCCTACCANNAAGTAGAGACTNCCTACACAGNAGTGAAAGATCTAG
CCATTTCAAGAGGGCAAGGGACAATTCTGTAAATAAATTGCANNTAAGNAGTTCCTTACT
ACNCACAACATGCTCTANTNGTGNGGANGAAATTAATNCTTATCCCNAAAGAAATATACTT
TTCCNAGTAATGATAGGCTTCATATAAGNGGAATCTAAAAATGCTTTAACAATTCTACCA
TNNCNGCGTACCTGCCCGGGCG

Sequence 5426

CCGCGGTGGCGGCCCGTCGCTCCCCTGCTCCTCCTTGGTGGCTCTCTCAGAGGACTCCAG
AGTTGTATCCCCAGGCCGTCTTGTTTGTCTGCACTCCTGCTCCCCTTAAATAGCTCCTC
CCTCTCCCCGCGTACCTGCCCGGGCGGCGCTCTAGAACTAGTGAT

Sequence 5427

CCGCGGTGGCGGCCCGCCGGGCAGGTACCGGAGCCCCAGCCCTGGCCCTGAGGGAGAAGG
AAGTCAGGGCCGGGGCTGCCCCAATCCTGTCTCCTGTGCGCAGGTGAACGGATTCAACAC
CCTTGGGGAAAACATTGCTGACAACGGAGGGGTGCGGCAAGCCTTAGGCCTACCTCAAGT
GGATGGCAGAGGGTGGCAAGGACCAGCAGCTGCCCGGCCTGGATCTCACCCATGAGCAGC
TCTTCTTCATCAACTATGCCAGGTGTGGTGCGGGTCTACCGGCCCCGAGTTCGCCATCC
AATCCATCAAGACAGACGTCCACAGTCCCCTGAAGTACCT

Sequence 5428

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTT
TTTTGAGATGGGAGTTTTGCTCTTGTACCAAGGCTGAAGTGCAGTGGCCGTGATCTTGGC
TCACTGCAACCTCTGCCTCCTGAGTAGCTGGAATTACAGGTGCCCGCCACCATACCCAGC
TAGTTTTTGATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACT
CCTGACCACTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCA
ATGTGCCTGGCCATTCTGTGATTTTTTAGAATTTTTCACTTTTCATATAAAGTTGCATT
TTATCATGAGGAAAATGTTTTGGCTGAAAAACATATGCCCAAAAAAAAAAATCAGTTTT
CACTATTTTTCCAGCTTGCCCTAGGGAAACGT

Sequence 5429

GTGGCGGCCCGCCGGGCAGGTACCCCCAGCTACCTCCCATGTTTCCAGGTATCATTTGGCT
CTTAACTCCCACAAGCCTGCCTTTTGGCTACCCATCCCAACAATATCAAGAGGGAATGAC
TAAGTATCAGCTAGAAACTTAGCCATGTCTCAACATTCTGATTATCTGAAAAGCTGTCGA
TGCCCTTTTACAGGTTTATGGTGACAGACCCGTATCATCTTAAAGTATGTTTCATAGTTAA
GGCTTGACTTAAGAAAATAAGAGAACCAGACATAATGGAAAGACCTCTTCAATAATGTTG
TCATGCCTCTCAGTGAACGTGCTCACAGTCACACTTGGTTTGGCTCCCCAAACCCACAAT

Table 1

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AGAAAAGGAAAAATGAGTATTTTGTTTTTTCATCTGTTTTGTATTTAAAGGCATTGGGTTA
CTTCCTCCTGCCCTCTTTTCTTCCCTGAACAAGAGTTTACAACCTCCTCATGGCTTCTTAA
TAGGTGAAAGTAGGTGAAAAGCCTGAGAAGCTCACAGCANGGTTTGCCCGTCCCAACTAT
GCACTGAGANGTCGCCCAGCTTCTGTGCCTTCCCAGCCCCACTATAATTTGGCAGTATGT
TTGGGTCATGTTTTCTGAAAACATTTTCTTTNAAAANGGAAAAGAAAAAAATGNCCAACA
ACCCCNCCCAAAAAAAAAAAAAANGAAAAAAAAA

Sequence 5430

GCGGCCCCGCGGCGGCAGGTACCCAGACAGGATCATGAACACGTTTAGTGTGGTGCCTTCG
CCCAAAGTGTGACACACAGTGGTGGAGCCCTACAACGCCACCCTCTCAGTCCACCAGCTC
GTAGAAAACACAGACGAGACCTACTGCATTGATAACGAGCTCTCTACGACATTTGCTTCA
GAACCCTAAAGCTGACCACGCCCACCTATGGTGACCTGAACCACCTGGTGTCTGCTACCA
TGAGTGGGGTCACCACCTGCCTGCGCTTCCCAGGCCAGCTCAATGCTGACCTGCGGAAGC
TGGCTGTGAACATGGTCCCGTTTCCCCGGCTGCACTTCTTCATGCCCGGCTTTGCCCCAC
TGACCAAGCCCCGGGGCAAGCCAGCAGTACGCGGGGTAGAAGACATTGCTATTTGAGCTTT
AAAATGTAGTAATTTCTGAATTACCAACAAGACCTTATTTAAATGCTGAGAGCTGCATTA
TGATGAAGCATTAGTCTAGCTGGATGATTTCCAGATGGATTTTAAACATTAATAAATGT
TTCACATTTATTTGATCAATAAATGCATATATATGCTTTTAAAAA

Sequence 5431

CCGCGGTGGCGGCCCGAGGTACTTGGCACACACAGGATGGTGTTTTAAAGAGTGGGCTGC
ACCCCCACACGCCATTTACATCAGCTTCATAAACACTTTTCTTCCTCCCTGTAACCTAA
CCTTTTTTCCCTTTTATGAAGTTGAGAGGCTTTATGAAATAAGTTGCATTGCACATCCGT
GCAGAAATCTTTCTGACTTTGAAATTTTATAGGACGTCAGCTGTCAGATACGAAAGGTAGA
TATCAGGTAAGAATCTGGACTTAGGAAATAGTCACAAAACCTGTCATAGGTTGTAATTTTA
TCAACATTCGCTTCTAGTAAAATTAAGTCAATTAAGAAATAGAACTTGGGTCAAATTC
TGTTACAAAGCTTCATAATTTGTCCCGAAGCATATGGTGGAGCATTCTGAGAAATTTGCT
TTTTGTGTGTTTGACATTCCTAATTTGGGAGTCCCTCAGCTGAATTACTATTCTTTTGA
AGTTGAGACAGCAGGTAAGCAAAGGACCTAGTTCATGTAAACATGGACATCATGATGGCT
ATTTAAAAAATATTTGGTCTACACCTTCTCCCTGAGGCTTGGGGAGTGTGTTTACGCCGT
GCAGTTTCTCTGCTCATGGAGGTCTTGGTTGGATCTGTGCTGGCGGNTGAGCATTTAGTG
NGAGCCAGTGACCCATGAACCTGCCGTCTGTGANGGCCANAGCANGGCCAGCATNGTAAT
GGGCCTGANGCCCTTCCNAANCCTTTATGNTTTGGGAGCCANTGGTNAAAACGTNTTTT
GGNNGGNTGGAGGCCACCNNNNCTTTTGGGAACCTTTTGNGGCTTTCCAAGTNTNNCNG
GCNANGGGGGGGCCCNCCCTGGGGGG

Sequence 5432

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTATACTACTTA
AAGCAACCACTAAAAAATTAATACAAAAATACAAAGAAATATATTTAAAAAACACTACA
AATATATCAAATGGAATCTAAAAAATGTTAAAGACAAAAAAAAAAAAACCCAAACAAA
CCAAGAAAGAAGCAACAGGAAACAAAAAACTAATCATAAAATAGCAGACATAGCACTA
ACATAATTATTGTAAACTTTAAATGGTCTAAATACACCAATAAAAGACAGAAATATGCAA
ACTGGGGCCAGACACAGTGACACATACCTGTAATCCCAGCACTTTGGGAGGCTGAGACTA
CAGGCACGCGCCACCGCGCCCCGCGGTACCTGCCCGGGGCGGCCGCTCTAGAACT
AGGTGGGATCCCCCGGGCTGCAGGGAATTCGATATCAAGGCT

Sequence 5433

CCGCGGTGGCGGCCGAGGTACTTCACTGCTCTAAGTAGGTGCCCCACTTTGATAAAGTGC
TGTCCAGTCTGTGCTGTCCAGTCTGGAAGGGTCGCTACCCATGAACGTAGCAGCCATC
CTGCTATTGGGTAAGTCATCTGCATGATGACTGTAGCCTGTTCTGCCATGCTCTTATGAA
GTCTGAAGGGCAGCATATGCAGTTACTAACTGCTTCCCAGTCCAGGGGGTCATTATCCAT
GAACATACCCATCCTGCTATTACTAACTGCTTCTCTATCAATAAAGACAAGCTCAGCTCC
ATAGTTGGGGCCAAAAGCCTACTGGCATACTCAAGCACTCCGTGCACTGCTATAGGCCCT
AACTGAACTATCTTGTGGTCACATGCACATCTAGCCTAAATGGGCACCTCTGATCAACT
AC

Sequence 5434

CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACAAACAAAT
CCAGAATATGAAGACTGCAATAAATATCTAACTTTTTAATGCCAGACACTGACAAACAT
CCACAAGCATCAAGACTATCCAGGAAAACATGACCTCACCAACAACCTAAATAAGTCAC
CAGATCCCAATTCTGGAGCAACGGAGATATGTGACCTTTCAGACATAATTCAAAATAGCT
ATGTTGAGGACACTCAAAGAAATTCAAGATAACATAGAGAAGGAATATAGAATTTTCTCA

Table 1

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GAGAAACTCAACAAATATATTGAAATAATTAAAAAGAATCAAGCAGAAATCTTGGAATTG
AAAAATGGCAATTGACATACTGAAGGAAGACATCAGGAGGATTTTAAATAACAGGAATTT
GATCAAGCAGGAATTAAAAATTACTAAGCTTGGA

Sequence 5435

ACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTTTTCACACTNGGAAGTCACAGCACAGCCCACACTTAAGGAACAGAGAGTCAGGCTC
CCCTTGCTCCTTAATGGCAGAGTAGCTNCATAAATTATTTGGAATGCTACATGGCAAATT
TATCTCTTTCCCCCTCTTTTATAGTTATCTATCACTAATTATNTNTCAGTNTGGACTCAT
GGATATTTATTTTATATTTTCGGGTACAACTTGTTAGNATTTAATTTNGTNGTTCAAATA
GTTCTTCCAGCTTGGGCCACTGGGANCTCTTCAGCTGGCTCCTGNGTCCCTCTGACATG
CCCCCTTNATTGGGGGGGGTTTTTTTAAAGCCCTTTA

Sequence 5436

CCGCGGTGGCGGCCCGCCGGGCAGGACGCGGGGGGGGAAGCTGAGGGCTGAGACCAAGG
GCTAAAGCTGGGAGACTGAAAAAATGCAGACCGCCGGGGCATTATTCATTTCTCCAGCTC
TGATCCGCTGTTGTACCATTAATTTTATGTTGTGCCAGTGAATCCGGTTGCCAGAAAATAA
GTCTGAATGTTTTTCATGCATCTTTTTCTTAAATGCAAGAGCTTCTACTGACTCTTAACAA
GCATGCTTACCCAAATTTTGTTCATGCTTTTAAGTAGCATTAGCTATGCACACTTGACA
TTTTTAAATATCCCTTTCTAGTGACCT

Sequence 5437

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTAATAAGACACCTC
AGAAGTCMAACAAACCTAGTTTTTACTAAAATGATGGGATAAAGGTAGTGTCTATGCTGA
AGAGCAGCTTCACTTGTTTCCCCACAGAAAAGGCCCAAATTTTGGAGGATAATTTAA
AACTAAGCCAATAAGGCCAGGCATGGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGA
GGCCAAGGCGGGCAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGTTAACATGGCG
AAATCCCGTCTCTAATAAAAAATATAAAAATTAGCCGGGCATGGTGGCATGCACCTGTAAT
CCCAGCTACTCAGGGAAGCTGAGGCAGGGAGAAATCATTTGAACTCGGGGAGGTGGGAGG
CTGCAGTTGAGCCAAGGATCACACCATTGC

Sequence 5438

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACACTGGAGGCT
GGAGCCTGCGGATGGCATGGCTCTGCGGCTCACCTTGCTGCAGTTGGTGGTGGTGACAGA
GACTGCAGCTTGACTGTAGTGAATTTGGAAATTATCTGTCTGGAAGCTCTGAGTTTATCT
TGGGACCTCAAGAGGAGAGGGATCACCCAATCACAGCAATCAAATCCAAATGGTGCTA
TAACTGAACCACACATGGACACGTCACTCTCCGAGGACCTTTAGATCAACCCCAGGAG
GAGCCCTAGCTGCTGTTCCCATTCGACGCCCTTTCCAGCAGGAAGTAGCCAGAAGACA
TCGTCGCCCAAACCTCTAACAGCAGTTAGTGCCGGCATCTCCACAGGGGGNAATGTTGT
AAGCGAGTTATTGATAAATTATT

Sequence 5439

NCNAGGGTACGGCGGGGGACACAGGGCCCAGGTGTGTAGGGCCACAGCAGCCGCAGTCCT
GAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCAGGATGCCTCGCCTGTTCT
TGTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCA
AATGGAAGGACGATGTTATTAAATTAT

Sequence 5440

TATAGGGCGAATTNGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTTTTTTNGANCTTATTANAACATTTATTTTTTTNTGAATGACAGCCGGG
AGTGGGAGTAGCTNAACAGGNCATGTTAGTGGTGTNAGTGCTGGCTTAAACGAANGAGCT
GNAATGGGGGTTTTTGNNTTTCGGGAGAAAGNTGNGNTTGNNGNAANACNTGAACANAACCT
CCCNANNTNNGNTNGGATNATACNNATGAATGGNCACTNGATCAAATAAAGGCAAACA
CTGGANNCTCNAAAAAAAA

Sequence 5441

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNNGCCAGGTACACA
NAACCCATTANTAATGTANTATAGACACCAAATNTNNANAGAGATANAATACATTACTG
ATGTGTGGATTAA

Sequence 5442

TATAGGCGAATTGGAGCTCNCCGCGGTGGCGGNCGCCCGGCAGGTACCCNGGAAAATNT
TNTTGGANTNANGTTNATTAGGGACTNACATNTAATACGTGTATTTTTGTTTCTCACCT
TTAGGCACAGACCCACAGGCTCCTCGGACACTGGGTCCATCACCTCCTGCCCCATCATC
CACTCCAACACCAACAGCCCCATTGCCACTCTGAACCAGCCTCCACCACTTCTTCGTCC

Table 1

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AACACTGCCTGCTGCCCCGGCTCTTCACCGGCAGCCTCCTCCACTCCAGCAGCAGGCTCG
GTTTCATCCAGCCCCGGCCAACTTTAAATCAGCCTCCACCACCTCTTATTCGCCCTGCTAA
TTCCATGCCACCCCGTCTAAACCCAAGACCGGTGGTTGTCCACGGTTGGGTGGGTCAACA
GCCACCATCACTTTATTGGGAAAT

Sequence 5443

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGATGCTGCA
TTGTGTCGGGAGTTGCTGACAGCCATGGCGCCGACAGGTCTGGCGTCGACGGACCCTGGAG
CGGTGTCTGACGGAAGTCGGCAAAGCCACGGGTTCGGCCCGAGTGCTTCCTCACGATTCAA
GAGGGATTGGCATCAAAGTTCACCTCTTTAACAAAAGTGCTTTATGACTTTAATAAAATA
TTAGAGAATGGTAGGATCCATGGAAGCCCCCTTGCAAAAAGTTGTGATAGAAAATTTTGAT
GATGAGCAGATTTGGCAACAACCTGGAATTGCAAAAATGAACCAATTTTACAATACTTTCAG
AATGCAGTTAGTGAAACAATTAATGATGAAGATATCAAGTCTTCTCCCAGAGAGTGAAGA
ACAGGAACCGT

Sequence 5444

GCGAATTGGATCTCNCCGCGGTGGCGNGNCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT
TTTTTTCCCGTTCCCTAGCACGCTCTCTTTCTAGTTCTCTCTCTTTTTCTCTTTCCCGAT
CCCGTTCACGTTCCCTCTCTCTCTCCCGCTCCCTGTCTCGTTCTCGTTCCCGATCTCTCT
CTCTAGCCCTTTTCATCTCTCTCTATCATCCACTCTGTCTACTCTTCGTTCCCTCTCTCTTT
CATCACGCTCAAGCTCGTCATTCTCTCCCTGATGTCGAATTGGTGAGCTTGGTCTTTGAT
CTCTCTCTCTGTTGTCACGACGGTCTCGCTCTCCATGTCTTCTCTCAAAGGGAAGAAATC
CCTTGCTTGATCTCTGTTGNCTCTTTCAAGGGATATCTATCCTCTTT

Sequence 5445

CGCCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAGAGATAGGGTCTTCTCTGTCACC
CAGGCTGGAGTGTGGTGGCACGATCTCAGCTCACTGCAACCACTGCCTCCCGGGTTCAGG
CGATTCTCCTGCCTCAGCCTCCCGAGAGCTGGGGTTACAGGCGCCCAACCACGCTTGG
CTAATTTTTGTGTTTTTAGCAGAGACGGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGA
ACTCTTGACCTGAAGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATGACGCGTGA
GCCACCATGCCCCGACGTGAAGACAGGAATTTATACCCATGGAGTGCAAGAAGGGACCTTG
TAATTTTTTAACACGTGACACTTAAGTGGCAGATGAGACCTAATGAAGCCAGGCCCACCTT
CACACCAAGATTATAAATTTCCCTGGAGCAGAGATTAAATGTTTTATTACCAACATGCC
CAAGATCCCTCGCAATGCCTACGCTTTGACAAACACCTGTTGGTCAAACAAAGTGCACGA
AGCAAGCCTAGGGAGGAAAAATTAGCTTCCACCAAGAGAAATAACTCGGGCCCTAACAGC
TAAGAAGTTTTTCGAGGNCATNCTAACTGGGNTCCACTTTTNNAATTTTGGGT

Sequence 5446

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCCGGGCNNGNACCCCGGGNAACNT
AAGGNTTCNNGGNCCCCNAGGNCCTCCNGGATNCNNGGATTTTTNTNAGGNGCCANCA
TCCNATACAACGGGGCAAAGCTATCCAGGTTCCGGCTAACACATTTTCTAAGTCGCCAGT
GCTGCTTACAGTTTGAATACATGAAAATCCTGTTTCTGAGATGTTTGCGCACGTGCTTAT
TAGGAAATGAGTCTGTATGGAAATCTCACCACAGATAATGGTTAACGAACCGGGTCGACA
TCACAAAGGAGGGTGGAGACTCTTTTTACTAAGTGAATGAGACAAAAGCAGTGGGTGTC
AGTTTTATAATCCTGATGCATTTACAGTAATTAATGTAGAAAAAACCATTTATTTAAAAA

Sequence 5447

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTGGGGTGAGATGATCTGAAGGGTGT
TTCCAATGAGAATGACACAAATACCAAGGACTGGAGAAGCCCTTGGAACAATTGATAAAG
CTTCCCACATTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTACCCAGGCTGAATGCAA
TCGCATGATCTCGGCTCACTGCAACCTCTGCCTCCTGGAATCAAGGAATTCTCCTGCCTC
AGCCTCCTGAGTAGCTGGGATTACAGGCTCCACACACCTGGCTAATTTAGTATTTTAA
GTAGAGACAGGGTTTCACCATGTTGGTCAAGGCTGGTCTCGAACTCCTGACCTCAGGTGAT
CCACCTGCTTCCGCCTNCCAAAGTGCTGGGATTNCAGGCATGACCACTGCCCTGGTCAAT
TTCCCACATTTTCTTAAGATTATGTTTGGCCTACAAAAN

Sequence 5448

GAATNGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGATTCCAATTGATGGGA
TACATGCCCTTAATACAGAAAGTTTCCATTATTTATTCAAATATCAAATTAAGATTATT
GAGAAGTTTATTGCTTTATGGCTGGGCAAGATGCTACTAGCACATTTTAGGTAAATATAT
TCTTTATTAAAACTATGAGGTCAATCTGTTTAAAACTTTCAAGATAATTCACGGAAAAC
AGATATATCTATTCAAATTAACATTAAAGGGCCAGGCTACTAGCTATAGACATTTATAT
GTGAAGCAGCTCTTTTTTTTTTTTTTTTTTCTGAGACCGAGTCTCACTCTGTCGCCCGAGGT

Table 1

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GGAGTGCAGTGGCCCAATCTCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAGGCAATTC
TCCTGCCTGAGCCCCCAAGTAGCTGGGATTACAGGCGCCGTGACACCACACCCGGCTAA
TTTTTTTGTATTTTATAGNTAAGATGGGGTTTCGCCATGTTTGCCANGCTGGTCTCNAACT
CCTGACCCNAANNAACCCACCCGNCTTGGNCTTCCAAAGGGCTGGGGATTTCNNGACCTNA
GCCATGGGGCCCGGCCAATGAAGCAACTTTTTTAAGAAATTNGCCCTGNANATNGGGNCN
GCCNGGNTCCNCCCNNAATTGNAANGGGGTACCCCGGAANNCCATTTNTNCCCCTT
TGNTCTTGTNNGGANCNTTANAAAAA

Sequence 5449

CCGGGCAGGTACCATGTTATTTTAGATGAAAGCCATTACAAAGAGTTGCTCACACATCAT
GTTAGTCCTCCTCCTGCTAGCCCAAGTTCTGAATGCTCACTTATTCGTATGGGATTTCTT
CAGCACACCATTTGCTTCTTTATCTGACCAGGATGCAAACCCCTCTTTCAGCATGGCGCAT
TTGGATGGCAATACTGAGCCAGGGCTTACATTAGGGGGCTATTTCTGCCACAGTGTCGG
GCAAAGTACGCGGAATGTTCAAGCTTTAGAAAGATCAGAGCAATTTTCTCTTTCAGTC
CAAACCTAAGACTCTCTGTATTTAAATCTCTCTGGGGCAAGAGGGCTAGATTTCTT

Sequence 5450

TCACTATAGTTTTGAATNGGAACNCCACCGCGGTGGCGGCCGCCGGGCAGGACGCTTTT
GAGGATAAATCATTTTATTAAATAGGTCTGCTTATCAGGAGGGGCGTGAAGGCTCCCAAAA
GGAAATGCTGGCACCTGGGCCCAGAAGCCAGGGCCTCTAACTCCTGGGGTTGATTTCTTC
AGTGAAGTTGCACCCTACAAAGGAATATGGCCAAANTTTTNACTCAACTGAAGGCTGAT
ATCAGGCGATTAGACAGCCATGCATTCTGCGTTTGTCTGGAATGGATTGTANAGAGATGG
ACTTATATGAGGACTACCAGTCCCCGNTTGATTTTGATGCANGAGCGAACAAGCTATC
T

Sequence 5451

ACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACAGAGAGC
AGAGGCTCCTGTTCTGTCTCGCCACCCACGAGGGTGACACTGCTTGTAATGGTGGCTG
TGCTCTCCCAGCAAGAAAAAGCACAACTAAATCCACACTGCACACAGACGCAGACAGAA
AGCTTAGTGGCTCTGTTTTCTGCTCCCTGCCTTGCCAGGTCCACAAGCAGAGAGGAGTGT
CAGGCACATGGCCCCGCTGTGAGGCTCCCCAGTGAGCTGCGGGCTCAAGCAGGAGCTGCC
CACTGACACACAGGGGACACCCACTCCTGCCACCTTGGGAAGCGGTGTCAGACAGAGCC
CCACTGGGTGCTGGTGTGTCATCCANGGACCCACACACTTCCCTTAAATGTGATCCTGCTTC
CTCTGCACAAGCTGCATNCTCTCTTCTGCAGGACTGTCTGGAACTTGGCTNTCAATTTG
CTCTTCCTTCTNTTCTTTTGCCTGNCCCAAGCCCCCTNTTCTAAAAAAAGTGATGCCATG
TTCATGGGGGTATTTTTGAAAATACTTGGCGGGCTNCATGCTTNTGTTTTNTTTGNCCNG
GTGGTCANGAGGGCTTACNAAAAAATGCCTG

Sequence 5452

CGCGGTGGGCGGCCGCCGGCAGGTACGCGGGGGCCTTTGCAATCTCCACGTTGCGATGG
ATCCTTGGAACCACTTTTGTAACTCTTAAACTTTGTGTCTTTGTCTTTATTTCTTTCT
CATTCCTCGTCTCCACCGGGAAGGGGAGAGCCTGCGGTGNGTATCAGGCAGGGTCCCCT
ACATCTTTGGCACCCAACACGGTCTCCTTGAACCCAGGTGAAGTTACACCTGAGCCGTGG
TCGTTGTGAAGAACGGTCTGTCCAGGAACCTCCCGAGAACGTGTGGTTCGGCCTTGCGGTAA
AGCTTGTGCACTCGGAGCATTCAGGGACACCATGGGACAATCCAAAAGTAAACATTCTGC
ATATTTACATTTTATTAAGCTCCTCTTAAAGAGGGCAGGAATTAAGGCTAGCACAAAAA
TTTGATTACTCTGTTTCCAACAGTAGAGCAATATCGNCCTTGGTTTCTGAACATGGTACC
T

Sequence 5453

NGGTTTTCGGGGGACNCACNCACTCAAAGNTTTTGAGGGGGGANACNCCACCGCGGNGGC
GGCCGCCCCGGGCAGGAACGNTTTTGANGGGGCTGAANAGCCNAAAACCAATNNACCCANC
AGNCCAGCCTNCNCTCAAGGAGAGGCAAAGAAAAGGAGANACAGCG

Sequence 5454

TAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCGGCAGGTACTTTTTTTTTTTTTT
TTTTTTTTTGAACGGAGTNTNGNTNTGNCGCCTAGGCTGNAGNGCAGGGGCNCGATCTNA
GCTCACTGCAATCTNTGCCGCCCCGGGTTCAGGCGATTCTCCTGCTAGCCTCCCCANAGTT
GGGATTACAGGNGTGTGCCACAACGCCTGGCTAATTTTGTATTTTAAAGTAGACACGAG
GTTTCAGCATCTTGGCCAGGCTGGCTTGAATCCTGACCTCGGGATCCACCCATCTCGGCC
TCCAAAGGCAGAACCAGATTCTTAACTGCCACAGACTCTTGNATTATGTAATTTATATAC
AGAACACAAAGGCACTTGATTTGCTTAACTGATGTACCT

Sequence 5455

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCCTTGCTCACT
AGAAGGAGCCCCCTGACCCCTTCTTCCAAAATACTTTTTGTCTTTGTCTTCGTTTCTGC
ATTCATCCCCCTTCGTTCACTCCCATAACAACCAACAGCGACAACCTGGCACCTAGGACAG
GGACGTGAGTGAAGGTCTGNTGGAGCANAGAACTGACACTGACAAGAAGAACGAGAATG
ANAAACCCTGCGACGAGTCTGCTGACAGCTAATATAAGTCTGCAAATCAGCTGGACCAC

Table 1

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CAAACGGNAATTGAGAGCTGCACAACCTGCAATTACCTTTATTCAATTAATGCAAAAACA
 AAAATGGGGAGATGCTACAGGCCGAAAGAATGAAGGTCGTGACCAACTCAGTATAACCACT
 GAAGGCTATATGAGCAAACAGAAAACCTGTTNTNATGAAAGCAGGATGTTGGAAA

Sequence 5464

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGTTAACCAAGTAA
 AAATGGTATGCTGAAATAGGTTAACTAGGGCATATTTGAAGAATTTTGTTTACTTTTAAA
 AGAGGAAAAATCACTTCCAATCTTCCCTTCCACACATTCCTAACAAGCCTGCACTATAACC
 TGCTTAAAACTGAAAATATAAACAATTACATGGGCCCCACTTCATTACAGAATGCATTTT
 CCTGTACTTGAAAACCTGGAACAGCTTGGGAATGCCATGGGGTTTGATAATCTGCCAGGGA
 CATGAAGAGGCTNAGCTTCCTGGACCATGACTTTGGCTCAGCTGATCCTGACATGGGAGA
 ACAACCACATTTTTCTTTGTGTGTGCTTCTAGCANGCTGTTTCGGGAGGACCTTGACCCA

Sequence 5465

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATAATATTATCTTTATGA
 GCACGCATGGAAATTTTCATTCTGATCTGGAAGAATAAAAGGAAAGAAAATGTCAGGTGA
 AAGAGTAAGTAGCCTCCAACCTTAAGCAGACAGAATAATTTTCTTTAAAATGAAAAGAACA
 TTTTAAGCTGTCTTTCCCCCTAAAAGATCAGATCTAGAAAGGGCTGGAAATGAACTGTGC
 CCAGGAATCTGGGGGTGCTCTCCAGTAAGGCGAACTGAGGCTCATTTGCAGCCAAGACTT
 GGAACCTCGGGATGAGACCTAATGGGCTATTGCTGCCATCTGGCTGCCAAAAAGTCCCTAA
 TAGATGGATTTTCCAGGCTGACCCCANCTGTGGGGCGGGGGGGGGGGTCTTTGGCTTT
 CTGNGTNTCTGAAAGCNTTTGCTGCCCCTNACCCTTTTCTTGAACTGACCCC

Sequence 5466

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTCTTTTTTTTTTTGGAACCG
 CGGTTGTTTAAAAGCCTGAGGGAACCTGGAGGGGGGCTCCCACTCTNTACCTTCTTTCCT
 CCGAGTTTGTGACTCCNAGATGGACAAAGTGTGTGCTGTTTTTGGAGGCTTCCCGAGGCA
 TTTGGCAGAANCTGTGGCCCAANTTNATGGGCCCGGAAAAGGCTACCCGACTGGCGGGTC
 ATTGCCAAGAAACCTGNA

Sequence 5467

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCAATATCCTGCC
 GGGCATGCAAGCCATACAGCCCAGGCCTCTCCCGCCCATACCAAGGCCAGCATCCTTCAG
 AAAAAGCATNCCCGAGGAGGAAGACGAATCGTTAAACATCTGAAAGGGTCAGGCCAGCAT
 NCTTCAGAAAAAAGCATCCCCGAGGAGGGAAGACGAATCTGTTAAACATCTTTANGTC
 AGCTCTAGCCTCTCGGAATTTGTCTTNTTCAGTGGAAACCCCGAGAAGACTGATCAGTTT
 CTTCACTTNTAAAACAATGGCCCAGGGTTTTGGTTGACGTTTCGCACGACGTANCCATAG
 ACTTTTCTCAGGAGGAGT

Sequence 5468

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCCCCGAGATGGTGGATAAACTTATCTTGC
 TGGACACGCCGCTCTTTCTCCTGGAATCAGATGAAATGGAGAACTTGCTGACCTACAAGC
 GGAGAGCCATAGAGCACGTGCTGCAGGTAGAGGCCTCCCAGGAGCCCTCGNCACGTGTTC
 AAGCCTGAAGCAGCTGCTGCAGAGGTTACTGAAGAGCAATAGCCACTTGAGTGAGGAGTG
 CGGGGAGCTTCTCCTGCAAAGAGGAACCACGAAGGTGGCCACAGGTCTGGTTCCGAACAG
 AGACCAGAGGCTCGCCTGGGCAGAGAACAGCATTGACTTCATCA

Sequence 5469

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAATGGACAATATATATGGTATGTGACCATTG
 TGTAAAAAACTGTAATAGATAACTCCAGAGGGATAGAAAACCTTGATGGTGAAGTGCCTTTA
 GGGAGTGGCAGTGGGCATGGACCTGGGAAGGCAGATGTAGTTGTCTATGGTACAAGATCGC
 GGTGCTGGTGCTGCTGAACGAGATGAGCCGCACAGGCGAGGGCGCCGTCAGCCTCATGGA
 GCGGCGGAGGCTCAACCAGCTGCTCCTGCCCCCTGCTGCAGGGCCCAGATATTACACTGTC
 AAAACTTTACAAGTTAATTGAAGAGTCTTGTCCACAGCTGGCAAATTCAGTGCAGATCAG
 AATCAAACCTGATGGCTGAAGGCGAGTTGAAGGATATGGAACAGTTTTTTTGATGACCTTTC
 AGATTCTTTCTCTGGAAGTGA

Sequence 5470

CCGCGGTGGCGGCCGAGGTACACAGTGAAAGGGCCCTGACAAGAGGATGGGACTGCAGTT
 GTGGCTGCCAGAGTCTTGCTTTGTGCGCCAGGTTGGAGTGCAGTGGCACGATCTCGGCTC
 AGTGCAACCTCCGCCTCCTGAGTTCAAGTGATTCTCCTGCCTCAGCCTCCCTAGTAGCTG
 GGGATTACAGGACAAGGAGAGGGACAAATTCCTTCTTGGCATCCTTATGGCCCTGTGACC
 TGCTAATGAATGCTGACTCTGAGTTGCTACTAGAATTTGGTTTCCTTGTGGCTTCCCAGG
 AATTGGTCTCACTCTGCTCACTCTGTCTCCCAAGCTGGAGTGCAGTTGGTACCTGCCCC

Table 1

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Sequence 5471

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAAATT
CAGCAAAACATAGGTGTGATTGCAGCATTTACAGTTGCAGTCCTTGCTGCGGGTATCTCC
TTTCATTACTTCAGTGATTAGGGTGAGGCACAAAGAGTTTCTTGATCATCCAGAGAACAT
TGACAGACAATTATGAATAATAAAGATGTTAACAATCCATCTGTATTTAAACACTAGCA
GCCAGATCTGCTGCCATGATGCCTATTTGGTGTGTTTCTGATTAAAATGAAATCACAAGC
TGCCTTGTTTAGCCTGCTTTACATTGTAGGTGGCCCGCATTTCCAGAAATAACGTTATGC
ATCTAGATGGAAGCTGCATGTAACAAATCATTATTATCTATTTTTTAAAAGCTTCAAATG
ATGGGATATGATCATAGATTTTAGTCTTACTAATCTG

Sequence 5472

CCGCGGTGGCGGCCGAGGTACACGTCCCAGAAAGAAATACGCTATAACACCCACCAGCCT
GAGGGCTGCATTGCTGTGGAAGCAGGAATGGATACCCTTATCATGCATCTCTGCGAAGAA
ACTGCCCCAGAGAATCAGAAGTTCATCTTGCAAGGAGGATGGATCTTTATTTACGAACAG
TCCAAGAAATGTGTCCAGGCTGCGAGGAAGGAGTCGAGTGACAGTTTCGTTCCACTCTTA
CGAGACTGCACCAACTCGGATCATCAGAAATGGTTCTTCAAAGAGCGCATGTTATGAAGC
CTCGTGTATCAAGGAGCCCATCGAAGGAGACTGTGGAGCCAGGACTCTGCCCAACAAAGA
CTTAGCTAAGCAGTGACCAGAACCCACCAAAAAGTAGGCTGCATTGCTTTGAAGAGGCAA
TCATTTTGCCATTTGTGAA

Sequence 5473

CCGCGGTGGCGGCCGAGGTACCTCTGAGTGTGATCCAGCTGCCTTGTGACCAGGACACT
TAGAAGAAGCATGGACCCTGCAAGAGGATGGGCTCAAGGACAGCTTGCTGACTGCAGCC
ATAAGGGTGAAGCCTCTTCAGGTAGAGAAGGACTCCAGGTCATTTGGCCCAATTTAATGG
CCGACAGAAGAGGCCACCATCTGAATGTAATTTATCTCCTCTTTCATCTCCTTTTATTCC
CCTCCTCCTTTTTTTTTTTTTTTTTTTGGGACAGAGTCTCACTCTGTTGCCAGGCTGGAGTTG
CAGTGGCGTGATCTTGCTCACTGCAAGCTCTGCCTCCCGGGNTCACGCCATTCTCCTGC
CTCAGCCTNCTGAGTAGCTGGGACTACAGGCACCCGCCACCACGCCAGCT

Sequence 5474

CCGGGCAGGTACCTAAACCAGTCTGCGTGAAGTGCACCATGTTAGAGAACAGCAGGAACA
AAATAGGCTACAAGGTCACAATAAGAAGCCCTGGATGGTAGCATCAAAGACGAAACATTT
AAAAAACCACAGAATGAAATCCCCCAAGATGGCAGCTGCTCATTGTCAAGATTATTTACC
CGCGTACCTTCAGTCCTGGCCAAGCTTTGAGGCTCTGTCACTGAGCAATGGTAACTGCAC
CTGGGCAGCTCCTCCCTGTGCCCCCAGCCTCAGCCCAACTTCTTACCCGAAAGCATCACT
GCCTTGCCCCCTCCCTCCCGGCTGCCCCCATCACCTCTACTGTCTCCTCCCTGGGCTAAG
CAGGGGGAGAAGCGGGCTGGGGGGTAGCCGGGATGTNAGCCAAGTCCACTGTCTTCTTN
GCGGGCAAAGCCCCAT

Sequence 5475

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTTTTCTTTCT
TTTTCGTCCTTTTCCCCGGTTGCTGCTTGCTGTGAGTGTCTCTAGGGTGATACGTGGGTG
AGAAAGGTCCTGGT

Sequence 5476

AGGTACGCGGGGTCAGCCGCCGCGCCGGGCTGCTCCTTCTTCTCCTCGGGCGCCCCG
CGGCGATGTTCAACCGCGCCGNGAGCCGGCTGANCAAGAA

Sequence 5477

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCGTGGTAGCTCACGCCTGT
AATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACAAGGGCAGGAGATCGAGACCAT
CCTGGTTAACACGGTGAAACCCCGACTCTACTAAACTACAAAAAAATTAGCTGGGCGTG
GTGGCGGGCGCCTGTANTCCAGCTACTCANGAGGCTGAGGCAGGAGAAAAGTGTGAACC
CAGGAGGCGGAGCTTGCAGTGAGCCGAGATCACACCACTGCACTCCATCCAGCCTGGGTG
ACAGGGTGAGACTCTGTCTCAAAAAAAGTACCTCGGCCCCGAGGTACGCGGGGATCC
GCATAGTTGGNAGAAGCTGTCAATCTTGGTTATACCTTTTCAGGGGANAACCAAGACCAG
AATTAACCTTTGGAAG

Sequence 5478

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTCTTTTAC
TGCAAGGCGGCGGCAGGAGAGGTTGTGGTGCTAGTTTCTCTAAGCCATCCAGTGCCATCC
TCGTCGCTGCAGCGA

Sequence 5479

TATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGTGCGTTTGTGGCCGTCCGGCCTCC

Table 1

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CTGACATGCAGCCCTCTGGACCCCGAGGTTGGACCCTACTGTGACACAC

Sequence 5480

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACATCACAATGTCATTTTGATA
GGAGCGTTTTGTTATTTTTACAAGGCAGAATGGGGTGTAACAGTTGAATTAACTTAGCA
ATCAC

Sequence 5481

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATGAAGGATCTGG
CCACGGAGCACTGCATAGTTCCAAAGGGGCACGTGGGCATTCTCTCTATGGGCATTCAGC
AGACCGTCCACAGACCAGTAGTGGTTTGCATCCATGAATGTTAGCTGAAAGGCCAACAAC
CCATACAGATAGGAGTGGTTGTTCCATGATGTCTTGTCCAGGAGAAACACATACCAGTAT
GGCAGCAGGAATAACACACAGCTTATCCGGTAGCACAGGCCCAGCATCATGCCCAGTGCC
CCTGGGATTTGTAGGGAGAGGATTAAAGAGGTCAAGAGATCACCACAGGCCCAGTTTCCA
TCCAGTCAAGTGGCAGTGGGCGTAGGGCATCCAGCAAGGGGGAAGCGGCACCCGCGTACC
TG

Sequence 5482

TTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGAAACATGGCACCAGCATCT
GCTTCTTCCCCGGCTGCTTCCACTCATGGTGGAAGGTGAAGGGGAGCCGGATGTGCATAG
ATCATATGGCAAGAGAG

Sequence 5483

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACAACATGATGGTTCCCCCA
TTCACACCAGTGTCCAGTTCCAAGCCAGCTACCTGCCCAAACCAGGAGCTCGGCTCTACC
AGTTCCGATATGTGAACCGCCAGGGCCAGGTGTGTGGGCAGAGCCCCCTTTCCAGTTCC
GAGAGCCAAGGCCCATGGATGAACAGGTGACCCTGGAGGAGGCTGATGGGGGCTCTGACA
TNCTGCTGGTTGTCCCCAAGGCAACTGTGTTACAGAACCAGCTTCGATGAGAGCCAGCAA
GAACGGAATGGCCTGATGCAGCTTGAAGCTACAGCTGGAGGGACAGGTGACAGAGCTGAG
GAGCCNAGTGCAGGATCTCGAGAGGGCTCTGGCAANNTGNCANGCAGGAGCACACGGAGC
TTGATGGA

Sequence 5484

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGGAGTTACCAGCTTTGG
CTGCTCGCGCCTCCCCAACTCGGGTAAAGCTCCTCGGCCTCGGCGTGCTGCGCCTCCGCG
GCTGCCCTGCGCCAGAATTCGGTTCCCTCAAATTTATAAAAGCAGGAAAGCTCAAGACAA
AGAAATCCAACAAGGCTAGTGATTTTCAGTGATATGGAGAATTGGCCAACACCAAGTGAAT
TAGTGAACACTGGATTTTCAGAGCGTCTCAGCCAAGGAAATAAAAAGCCACAAAATAGAA
AAGAAAAAGAAGAGAAGGTTGAAAAGAGAAGTAACAGTGACAGCAAAGAAAACCGGGAAA
CAAATTTAAATGGTCTTGGTGAAAACGTCAGTGAGGATGAGGCTCAGNCAAGTAATCAAC
GTAAGAGAG

Sequence 5485

CCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGTGAGGGGACCCCTGCCTGTTTCCCC
CATACTGAGTTCTAGGGAGGTGCTCACCCCAGACTCTTANGAAGGGTCTAGAGAAATGAN
AGGAGCCCAAGCCAGGGGNCAGCTCCNANAAAGGGTAACCTATCACGCTTCTCTCTTTCC
ANAATTGGAAATGAANACAGGGTTTTCAAANGCACANGCTCCCCCTANCANCTTATAGGA
TNTTCCTTGGTG

Sequence 5486

CCGCGGTGGCGGCCGNCCGGCCATGGTNCGCNGGGTTNAATCCTGAANACACACGCNANG
TATTTNAGGGNNAGGCACANCTTNNCACACCCGNTCTGCGATATGATGCCTCCTGAAGAA
TCGATTNCTCAGGCCATGGTGATGACTTNCAGCCACGACCTCATGCTGCTNCGCCTGTCA
GAGCCTGCCGAGCTNACGAGATGCTGTGAANGTCATGGACCTNCCCACCCAGGATCCANN
NCTGGGGACCACCTGCTACGCCTNATGCTGGGGCAGCATTGAACCAGANGAGTTCTTGAC
CCCAAANAACTTCANTGNGTGGACCTCCATGTTATTTNCAATGACNTGTGTGCGCANGT
TCACCCTCATAANGTGACCAAGTTTCATGCTNNGTGCTGGACGCTGGACAGGGGGCAAAG

Sequence 5487

CCTAATACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGG
TACCGGGGCAGACAGCCCGGCGAACC GCGCAATGCGCTTCTTCTGCCTGCAGCAGAGAAA
AGGAAAGAAAACCTCCGCAGGGGCTCCGTTGGCTTCTCCACGAGTGACGACCATGTTTCC
CAGATAGAAGACCGGAGCCCTGCTCCTTTGCGATCCGCCGAGGGCTGCAGAGAGCATCCT
CATCCATTTGGGCACCCCTGCCCAGGAAGAGCCCGGCCATCCCTTTCCGGACTGGATCCT
TAAGAGGTGAATTTTCTTCCGTGGATTCCGATTTGCTCCGTCTGACCAGCCTAGGCAATC

Table 1

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CAGCATCGCGTGGTACCT

Sequence 5488

CCGCGGTGGCGGCCCGCCGGGCAGGTACAAATACAGCTTCAAGGGGCCGCACCTGGTGCA
GAGCGACGGGACCGTGCCCTTCTGGGCCCACGCGGGGAGTAAACATATGGTGAATCCAAG
AGAATAAGAGAATTATTTGCTCAAAGTCACACAGCTGAACTGAGACTAGGAACAAGTCTT
TTGATTNCTAGTGATTGCTTATTTCCAAGTTCAGATCANATTTNNAGTAGCACCATCTTTA
AAAAGCCAAAGAGGCTCAG

Sequence 5489

CCGCGGTGGCGGCCGAGGTACGCGGGGCAGTCACCGTGGGTGGTGTGGCAGCTGGAATTG
GGGGCCTCGAGCTGGCTGCCATGATTGTGTCCATGTATCTGTACAAACGAGTCCTGGCCT
TGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAAGGTCAAGGCCTTCTTGGCTG
ATCCATCTGCCTTTGTGGCTGCTGCCCCCTGTGGCTGCTGCCACCACAGCTGCTCCTGCTG
CTGCTGCAGCCCCAGCTAAGGTTGAAGCCAAGGAAGAGTCGGAGGAGTCGGACGAGGATA
TGGGATTTGGTCTCTTTGACTAATCACCAAAAAGCAACCAACTTAGCCAGTTTTTATTTGC
AAAACAAGGAAATAAAGGCTTACTTCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAGGTNCCT
GC

Sequence 5490

CCGCGGTGGCGGCCGAGGTACAAAAGTTAAGCTCCATTTACCACTCACTTGACAGTGTCC
TTTAAATCTGAACCTTGCTCTTGCTCATGCGGAGCTTGGCTAAGAGAAACCAGATCAGAAT
GCAAGCTGTAGGTGGG

Sequence 5491

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAAGAAT
GTAGAGGAACCTTGGCGGTCAACATTCCACCACCCCGACTGACCGAGTATGGTATGGTT
TCCGAAAGCCACCACATGTGGAGCTGAAAGGCTCGGCCAAAACCTTGAGAAGAGAGAAGT
GACTTTAGTTTATTGTGACAGACTGGATAGAGAAAGAACTGGAGCAAGAAGTTTCAGCT
GTTCTTTAATATCTTCTTACAGAAAGTTTTTTTG

Sequence 5492

CTACTTAGGGCAATTGGAGCTCNCCGCGGTGGCGGCCCGCCGGGCATGGTACGCGGGGGG
CGCGGAGCAGCGACGGCTGCGATAATAGCGAGGCAGCAGTGCAGCTTTCAGAGGGTCCGG
GCTCAGAGGGGCTATGATTTCGGAGGGTTCTGCCGNACGGNATGGGCCGGGGCCTCTTTGA
CCCGAAGGCCANNCACGCACAGAAGGAGGCTTTTCTCTTGGACTGGGGATGGAAAGGGTG
TCTGNGATTAANAAAGAAGATCAAGTCGATCCTGCCTGG

Sequence 5493

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTTTTTTTTT
TTTTTTTTTTTTTTTTTNCNTCTCCCCAAAGCTTTATCTGTCTTGACTTTTTTAAAAAAGT
TTGGGGGCANATTCTGAATTGGCTAAAANACATGCATTTTTTAAACTAGCAACTCTTATT
TCTTTCCTTTAAAAATACATAGCNTTAAATCCCAAATCCTATTTAAAGACCTGACAGCTT
GANAAGGTCACTACTGCATTTATAGGACCTTCTGGNGGTTCTGCTGTACNTTTGAAGTC
TGACAATCCTTGAAAATCTTTGCATGCAAAGGAGGTAAGAGGTNTTGGATTTTCNCAGAA
GGAANAACACANCCCCAAAATGAAGGGCCAGNGCNTTACTGANCTGTCCCAGNGNGANGGG
CNCATGGGTGGGGACATNGGAAA

Sequence 5494

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCACTGGACA
CTGCTCATCCCTGGGTGTCAGGCAGGTGGCTGCACCCTAGGCCAGGCGCAGAGGCCTGGC
AGGCAGGCTTGGCATGGTTGGCCGGGGCGGGACGTACTTCGGAAATTTCAATTCCTGCTG
ATCTTGATAAAACTTTTACCAGAAGTACCGACTGGCTGGGTATTAATCGACCAGATGCT
GAAGTCCAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAAT
GAAAATTACAAAGGCTGACTTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATT
GGCACAGAATTTGAAAAATAAAGCTTCCAGTTCAGATATGAGAACAGCAATTACAGAAAA
ATTGGAAAGGGTCAAGAACCAGTGGGGATGG

Sequence 5495

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTCCAGCC
AGGGCAAGAGAGCGAGACCTGTCTCAATAAATAAATAAATAAATAAATAAATAAATAA
TAAATAAATAAAAAAAAAACAAAGTTGATTAAGAAAGGAAGTATAGGCCAGGCACAGTGGC
TCACACCTGTAATTCCTTGCATTTTTTGGAAAGGGCTTGAGGCAGGAGGATCACTTTAGGCC
TGGTGGTGTTCAGACCAGCCTGGTCAACATAGTGAGACACTGTCTCTACCAAAAAAAGG
AAGGAAGGGACACATATCAAACGAAACAAAATTAGAAATGTAATTATGTTCTAAGTGCC

Table 1

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TCCAAGTTCAAAACTTATTGGGAATGTTGAGAGGTGTGGGTACGAAATACGTTAGGGAG
GACAAAAGGGAAGGGGTAAAGTCTTTAATGCCGATATCTTCAAGAAAACCTAAGCAA

Sequence 5496

CCGCGGTGGCGGCCCGCCGGGCAGGTACAGTCCCATTGTAAGTGTGTTTCTAATTATA
GATGTAAAATGAAATTTTCAATTTGTAATTGGAAAAATCCAATAAAAAGGATATTCATTTA
GAAAATAGCTAAGATCTTTAATAAAAATTTGATATGAAAAGCACAAATGGTGCNANAAGTT
ATGGAAAACCTATAGAGGATTACAACAGGTAAACGTTAAAGAGAATACATTGCTGACTTA
TAGTGATGTGGCTAAGAAGTACGCCTTGCAAGAGGAGTCTGCAGAAGGAGAGCCACCTT
TCACCTCCAGTTTGCATTCAATCTCCACTGTCCCAAGGTCATTGACTGCTTTGCAGCAGT
AAGTGCCTCCATCATAGGGGGCTGGGCTTGCGAATTTCCAGGGTACCTT

Sequence 5497

CCGGGCAGGTACTGATGTAAGGGGCGTCGCACCTCCTTCCCCTCTCGTCCTCCGAGGTCA
GTTTAGCAACAGCGGCTGGGAAAGGTGCTGAGAGCAGAGTTCGGTCTCTCCGGAACCCCT
GACTCCATTCTCGGTGATGGGGGTGGGGGAAAGAAGGGTGAAANTTGTNNGGAGACGNCA
NGGTNGGTTTCTNAAAAATAACTCNNAANAGTAAANAANNAAGGGGTANNCTNGGNCGTT
TCTAANAACANTGGATCCCCCGGNCCTGCCANGGAATTNCNATATCAAGCTTATCCATAC
CCG

Sequence 5498

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGG
GCCGATCGCACGCCCCCGTGGCGGCGACGACCCATTCGAACGTCTGCCCTATCAACTTT
CGATGCTAGTCGCCGTGCCTACCATGGTGACCACGGGTGACGGGGAATCAGGGTTCGATT
CCGGAGAGGGAAGCCTTGANAAAACGGCTACCACATCCAAGGAAAGGAAGCAGCCNCCC
AANTTNCCNATTCGCCGACCCGGGGAGGGTAGTTGACCGAANAAAAAAAAAAAAAAAAAN
AAAAGGAGTNCCTCGGCCGNTTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGAAATTCG
ATTTTCAAACCTTATTCGATACCCGTCGACCTCNGAGGGGGGGCCC

Sequence 5499

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGGCCCTGTAGG
ATCTCAGGGGCGATATAGTCAGGGGTGCCGAGAAAGGTGCTGGCCCGGCTCTCCCCGAAT
ATGTTCTCTTTGCACATCCCAAAGTCGGCAATCTTGATGTGGCCATCCCGGTCCAACAGC
ACATTGTCCANNTTGAAGGTCCCTGTAAATGATGCCCTTGCTGTNGTAGAACTGCAGTC
CACACATTATCTCAGCGGCATAAAACGTGGCACGGTAGAGTTCAAAGCGGCCTTTGTCCT
NGGATGTGGTACGCGGGGTATTATATCTGGGAAATTTGCTAAGACTAAAAGATTTTTCGG
TACCTGCCCNGGCGGCCGNTCTAGAACTAGNTGGATCCCCCGGGCTGCNGGAAATTCCCA
TATCCAAAGCTT

Sequence 5500

CCGCGGTGGCGGCCCGCCGGGCAGGTACCTCTGGGTATATTTGCAGAACCTGCCCTTCT
TTGTTGACTGAGGAAAGCTCGCTCCCTGCCCAGGTTTTTTCATTGTTGATCGAAATTAACA
CCAGGTGGTGAATAGAGCCCCCTCCTAAGGTTGCTCAGGATAAATCATTATTTAAATAGG
TCTGCTTATCANGAGGGGCCGTGAAGGCTCCCAAAGGAAATGCTGGCACCTGGGCCCAG
AAGCCAGGGCCTCTAACTCCTGGGGTTGATTTCTTCAGTGAAGTTGCACCCTACAAAGGG
AAT

Sequence 5501

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTGTTTTT
TTTTTTTTTCGAAAGCAAATAAATTTAATCTTTCAATTTCAATTAATCTTTAATATTTTCAG
AAGTATATCAACATTGCCTAACATGCTATTTTACACACAATAGATATATAATCAATGTTT
ATTGACTTAAAAATCTTTNGGTTAAGCCAGATAAATTTTGTAAATTTTTATGAAGTAGTT
AACCCTGAGTCATGAATTTACCTTTTTTTTTTTTTTTCTGGAGACGGAGTCTTGTTCTGT
CGCCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTCACTGCAACCTCCATTTCCCAGGCT
CAAGNGATTCTCCTGCCTNAGCCTCCCGAGTAGCTAGGATTACAGGTGCCTGCCACCAT
GCCCAGCTAATTTTTTTGGATTTTTTAAGNANAGATGGGGGGGTTTAC

Sequence 5502

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGAGAGC
AATCATGGGAGACGGCTCCCCGGCCAGACTTGCTGATGTTTTCTTGTTTCTGTTTCAGC
CTTCAGGATAATTCTTCAGCAGCACCCTGTAAACAGAGTGTGACGAAGATCCAGTCTCT
CTACNTGAAGACCANACTGATTGCTCCAGTCTCNGAGATGGNNACCTTTNNNGAGAACTA
CCNCGACACAAGGGCTCTNGTTTNAATTANNCACGCGCCGCCCTCTTGGGAGCCCGCAGT
AGCAGAAATGTAGAGGCGACCGTGCTGGTGGACAGCGTATTGCGACCCAGCATGGGCAACT

Table 1

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TC

Sequence 5503

CCGCGGTGGCGGCCGAGGTACACGACCCCTAGGCGTCTTGACAGGTGGATTTTCGACAAGG
TCATTGTGCCCTGCCAAGGCACAGCGTAGATCTGGAAAGAGCAGAATGCTTTCCTTTTCA
GATGTGGCTGGTCATGGAAGGGGCAGTTGTCCAAGTTGGGCTGGGTCTTGGTACTCAAAG
CTTTTTCAAGTTCCTCAAAAGCAGCTCTTTCGGACTTTTCTTTCTGTTCCCGTAATTCCT
CTCCCTGGGTAGTCATCTGTTTGATGCGACTACGGAGTTGAGCAATTTCTTCTTCTTCA
TTTCCAGGGTTTCATGCATCTGACGTTTTGTCTCTGCGATTACCATTCCCTTATCTTGTT
CAAGCTGTTCAATTAAAGTTC

Sequence 5504

CCGGGCACGGTACCAGCCAGCAACACCAACCAATGCTACTCTCTTTAAAGTCCATTTTC
CTTCTTCTTTTTTTTTTTTTTTGGAGACAGCATCTCACCATGTCCTGGCTGGTCTCGAAGT
CCTGACCTCAGGTGATCCGCCGGCCTCACCTCCCAAAGTGGTGGGATTACAGGCATGAC
CCACCATGCCAGACTTCCCATTTTACTTTCTGCAAGCTGTTTCCCTAGCAGCTCCCTCTA
GGGAGAGGTGAAATCTTGCAAGTTGTAGCAAGAGCACACAGGAAACCCCTAACTTTCCT
ATACCCACCCGCCTCTTCCCCTTTCTGTCCCGGATACCTGGCGGCAAGAGACTTCTTG
GCTATTGTCCATGCTCCAGAATCAAG

Sequence 5505

CCGCGGTGGCGGCCGAGGTACTGANTTCAAAAAGTAGCTAACTTAGAAACTGCCACACAG
CAAANAAGAAAACCAAGTGGTCCACAGGAACATTCTCCTTTCC

Sequence 5506

TTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGGACCTTGAA
CTCTTAAATTGGACCAGCAAAGTCTGTCAGCGCAACTCTCATGCAGATTTACATTTGACT
GTTGGAGCAATGAAAGTAAACGTGTATCTCTTGTTCATTTTTATAGAAGTTTGCATACT
ATATTGGATTTAAGCTGCGGTGTGACTAGCTTTAAATGTTTGTGTTTATACAGATAAGAAA
TGCTATTTCTTTCTGGTTCCTGCAGCCATTGAAAACCTTTTTCCTTGCAAATTATAATG
TTTTTGATAGATTTTTATCAACTGTGGGAAACCAACACAAAGCTGATAACCTTTCTTAA
AAACGACCCAGTCACAGTAAAGAAGACACAAGA

Sequence 5507

ATCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTCGATT
GTCAACGTCAAGGAGTCGCAGGTGCGCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGA
GTTGAAGATTAGTCCGCCGTANTCGGTGTACGCGGGGAATTTTATCTGGAAGAAATGATC
CTCCCTCTCATGGTAGCTAGTGCCAGAGTGGGGAACGGNAATGTATATAGTGGTGCTT
ACAGATGATGATGTGGTTGATTGGGATGAAGAATATCCACCACAGATGGGAGAAGAATAT
TCACAAATTATTTATAGCACAAAATTATATAGATTTTTCAAGTATATTGAAAACAGAGAT
GTGGCCAAGTCAGTTTTGAAGGACAGGGGTCTTAAGAAGATTAGATTGGGAATAGAAGGT
TATCCTACCTACAAAGAAAAAGTAAAGAAAAGGCCTG

Sequence 5508

CCGCGGTGGCGGCCGAGGTACTACACATTTAATTACTATAGCTTTGTAATAAGTTTTATT
TATTTATTTTTTTTTTTTTTTTGGAGATGGAGTCTCGCTCTGTGCGCCAGGTTGGAGTGCAGTG
GTGCCATCTCAGCTCACTGCAACCTCTGCCCTCCAGATTTCAAACAATTNTNTTGCCAAG
GCCCCCGAGTAGCTGGGGATTACAGGGTGCCCTGCCACCNTGCCCAAGTTAANTTTTT
TTTTNTNTTTTTTAAGNAGANACCGGGGGTTTNAACCNATTTTTTGGGCCNAGGCCTNG
NTNTNTAAAANTTCTTGNACCCTTAAAGGGGTGGAANTNTTNCCCNCAAANTTTTGGGCC
NTNCCCAAAAANTGCNTNGGGGGATNTANCNAAGGGCNTTNGAANCCCANNTTGGCCCCC
NTNGGCCCTTGGTAAATTAAAAGTTNTTTAAAAAATTCAGGGGAAAAGCCNGNGGTNGGT
AATTTCTTTTCTTAAAAACCAAAATTGGAAGGAAAACCTTAAAAGGCCACCAGGANG
GNCCTTAAAAGTT

Sequence 5509

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAAGCGNCCGTCCNCCGCNTAC
ANNCTGANAAATGCCNNTGGCCTGACAGCAGCANACATTGCACAAACCCAGGGTTTCCAA
GAGTGTGCCAGTNNCTCTTGAACCTNCAGAATTGTCATCTGAACCATTTCTATAACAAT
GGCATNTTAAATGGGGGGTCATCANAATGTATNTNCTAATCATATTAGTGTGGGAACAA
ATNNAAGAGATGCTTGAAGACTCAACAAGACTTTGGAGTANAAGAAAGCTANAAGTGA
TAGGTGAGACCGCTTTGCCGGGTGGGAAGAAGCACCATTATTTTCTTTCTTGTAATN
ATGGNCTTTCTTTTTT

Sequence 5510

Table 1

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CCGCGGTGGCGGCCGANGTACTTNGTGNTCCGNATNNAANATGGAAATGGGCTGACGGGC
GTTTATTGGAATTGGCTTATTGGGACCGAGGTGATGCCNTNACTTCAATGTTNCATTGC
AGGACCATTNCAAGNGTGNGAAACAGCACTGTGAATTTGCAAAANAATGCCCANAAACCA
NACCAAGGNCCTAAACTGGACCTGNGNTTCAAGGAGGGCCAGGACCATCAAGCTAAACAT
CAACANTGAAGTAAC TAANGAAGGAN CAGGCTGGGAATCCCCGAGATCCGGNCTGCCAGC
ACAGGANGGGCTTGAGCCTGCTTCCCCCTCCCCCAGGGGGGAAAACCTCCACCCTGATCC
C

Sequence 5511

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTCAAAAGGCAGTTATTGAGG
AGTTTGTCCAGACACTTCTGGTGCTCTTGCTTTACTTCTCTGAGGCCATGGAGTCTCCC
ACCTCAAAATCAGAGCTAATCCTCTTCTTGAGGAAGCGTAAGTATAGCTCACTGCGGGCA
TTCATCAGGGTGACCTCAGTCAGGATGGGGTCCAGTTCTCTTGGTTTTCGATTTTTTCTGT
TGTAGAATTTTNTCATCAAGGTTGTTCTNGAACATTGCCCGGAAGTCTGGTGGTAAGTC
CCTTTTGTCTTGATGAACCTTGCTTACCCACCTTCTTC

Sequence 5512

GGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACGCGGGGGGCATTGAGGAAGCCTTC
ACCAGCAAGGCTGACCTGTCAGGGATCACAGGGGCCAGGAACCTAGCAGTCTCCCAGGTG
GTCCATAAGGCTGTGCTTGATGTATTTGAGGAGGGCACAGAAGCATCTGCTGCCACAGNA
GTCAAAAANTCACCCTCCTTTTCTGNATTTANTTGAAGACAAGGGACCATTTGTGGCGT
TTTNAACAAGGCCCTTTCCTGATGATCATTGTCCCCTACAGACACCCAGAAACAATTTT
TCTTTNATTGAGCCAAAGTCACCAATCCCAAGGNANGCCTAGAAGC

Sequence 5513

CCGCGGTGGCGGCCGAGGTACATGGGACTACAGGCACGCGCCTGTAATCCCAGCTACTCA
AGAGGCTGAGGCACGAGAATCACTTGAACCCAGGAGACGGAAGTTGCAGTGAGCTGAGAT
CACACCACTGCCTCCAGCCTGGTGACAGAGCAAGACTCCGGCTCTTAAAAAAAAAANT
TTNTTAANTGTNCGGGAGAGAGANTAAACAGNAAAAGAATGTGGCTGGGGAATTGTGAAT
CAGAAGATTNTACCCCCCAATTTTTTTCAATCCCCTTTTCTCAAATAATAAATTAGTTAA
ATCAGTTTCTGAGTTATGCCACTGGCTGATGAAAAGTTGANAGGTCTNNTTGCAGAAATGG
ATCTTTTTGTTCGTTTTGTTTCTTCTTCTGCAATTTAAAATTTAAAGATTGGTTTTTGAG
GATGTGATGAAAA

Sequence 5514

CCGCGGTGGCGGCCGCCCGGGCAGGTACACCAGCTTTCCCATCACCCCTGCAACCATAGG
AGTGGTCTTGGCTTCCTAGTTATGTTCCCTATCAGGGTTGCCTCACTATCTTCTGGGCTTC
TCTGCTCTTTCGTCAACAGTGGAATTCTTTATATTAAATTTCCCTCTGTTTTAAAGACTTC
GAGTGGGTATATTTTCTTGCTGGACCCGAGTTCAAATGAAAAGTCTGAGTTGTAAGGG
GAAAACATCTTTTTTATTATTATTATTTTATTTTATTTAAGAAGACAGGTTTCTT
GTTCTGTTGCCTTGGGCTAAGAGTGCAAGTGGTTGCAATCCTAATTCAGTGTNGGCCCTC
AAATTCCCTGGGCTCAAGTGGATCCTCCTGCCCCACCCTTGAGTAGATAGGACTACAGGCA
CACACCACATA

Sequence 5515

CCGCGGTGGCGGCCGAGGTACCNNGTGNACNANGNTTACCAGAAAGCGNTTGNTACAANA
AAATAAGANCTCANGATGAGGGAAANANAAAGATNGAGAGAATTTGTGCCCNCAACCAT
TTCTCANACTCTAANAAAGAACCCCTCTCTACATGCAGGTCATGANGCTCAACTCTCT
TATTGCCTCACTTCATGTNTACCTGACTTTNCACAATATAATTATNACTGNAAAGAAGTT
TGGGGACACATGNTATTTGGAGATCACATTTTAAACACATTAGNAAAAGTTGCNCTTTNG
AACTTTTTNATTGATTTTTGGGGGGGAGGNNAAGAATTAATTTTTGCGATGCAACATAAA
TNNTCCNTTTGNATTTGGAGTCGACNTTTGCNCAAAATATNTAAGATTTATGGTGGTGGC
AATCAAGGGCGTATCCTTTNTTTTTTNCNTTTTTTTTTTAAGGAGGAAAGGTTTTCAAAT
TATTAAAGC

Sequence 5516

AGGTACCTCAAAGCCGGAAAGGTCAGCCCCCGCTGCAAGTTCTTAGATTCTTGAGGAT
CTGCAGAGTCAACATTAGGAGTATCCATCCATTACCAAGGCCATCAGGAATGTGCTGAA
TGTGCTGTAAAGAAGAGTTGTCAATTGTGCACAGAAGATAAGAAATATATGATGAATAGA
TAATTGAAAAGAGATCCTCCAGAAAGAGCAGAAGGAAGTTTCTTCAATGTTCTGGCACTA
AGATATGGTGAACAGACAGATGGAGGCCACAACATTCAAGCTTTATTAAACTTGCCACAG
ATACCAGTAACAGCAATTCAAAGATGTGAATGGGATTAATTCAGGGCTGTTGC

Sequence 5517

Table 1

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AGGTACACAAGTATATGAGTTTTGTTTAAAGCACTACTGAAGCCAAGATAAACTCTGGCT
TAGCATGCCCCTGACGGATCAGTCTAGTAATCTTATCAGAACCAAGATTACCTAAAACAT
TAACCAAAGGAAAAGCTCCCTCACCCCAACCTATGGCTGCCACATTTTTTCAGATTGAAT
CATTTCAATTGTATTTTAAGGTTTCATTGACTCTTTTCCACCTCCAAGCTGCTCCTGAACA
CAGATTATTATTTTTTAATTTTGAAAACCTTCTCACTTCTAGAATTTCCACTTGAGCCTG
TTATTATTGTAGTTTCTTCTTCTCTGCTGTGATTTCCTATCCATTTATTTTAAGGG

Sequence 5518

CCGGGCAGGTACGCGGGGGCTGGTCGGTGGGCGCATGCGCAGCGCGCGCTCTACGGCGCT
GAACCGGGGCGAGCAGAGAGCTGTCAGATACTATAGCCATATGAAGTTGAACATGGCAGA
AGAAGAGGACTATATGTCTGATTCTTTCATTAATGTCCAAGAAGATATCAGACCAGGATT
GCCAATGCTAAGGCAAATCCGAGAAGCCCGTCGAAAAGAAGAAAAGCAACAGGAAGCCAA
TTTGAAAAACAGGCAGAAGAGTTTAAAAGAAAAAAAAAAAAAAGTACCT

Sequence 5519

AANTNNGACTACCAGGATCCATGANCTTAAACAGGCCAAAATGAGCACAGTCATGGATAC
CGTAGGCCGGAGGCTTCGGGACTCCCTGGGCCGAAGTGTGGACCTGGGGCTGACAGGCAA
CCATGGAGTTG

Sequence 5520

CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCGAA
GAACGCAAAGCTGAGAACATGGACGTTAATATCGCCCCACTCCGCGCCTGGGACGATTC
TTCCCGGGTTCCGATCGCTTTGCC

Sequence 5521

GCGAGGTACTTTGGGAGGCCGAGACGGGCGGATCACGAGGTCAGGAGATCGAGACCATCC
TGGCTAACACGGTGAAACCTGTCTCTACTAAAAAAAATAAAAAATAAAAAATAAAAC
ATTTCTGGGCATGGCGGCGGAGGCCTGCAGTCCAGCTACTCGGGAGGCCTGANGGCAGG
ANAATCCGCTTGAATTCGGGAGGCGGAAGTTGCGGTGAGCCGAGATTGCGCCACTGCACT
CCAGCCTGGGCGGCAGAGCCAAGACTCTGTCTNAAAAAAAAAAAAAGAAAAGAAAAAGAA
AAAGCCACTCCAGGCTCACTGCATCAGGATTTGCACTGCAACAGCATTGCCAGGGCACA
GTCATGTTTTGAGAAATACGGAGGACCTCTGAAGTGCTTGATTCTGTGAACTCACACTGC
TGTAAGCAGACTTGTTTCTAGATAGGGGA

Sequence 5522

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGGGGGAGGGTAGAGTGAGAAGCACCAGCAGGC
AGTAACAGCCAACCCTTAGCCATTGCTAAGGGCAGAGAACTGGTGGAGCCTTTCTCTTAC
TCCAGGACTTCAGCACCTAAGACAGCTCCAAAACAAACCAGAACAGTCAGCTCCGGGGA
AAGCACGACTGGGCGAGAGGCACAGAAATGGACACCAGAAATAAGGCCAGCTCCTTGTG
CTCCTGACTCTTCTCAGTGTGCTCTTCTCACAGACTTCGGCATGGCCTCTTTACAGGGCA
CCTTCTGCTCTCAGGTTGGGTGACAGAATACCTTTGAGGGAGCAAATGAACCTGATCAA
GTTTCATTAAAAGAAGACATTGACATGTTGCAAAATGCATTAGCTGAAAATGACACACCC
TATTATGATGTATCCAGAAA

Sequence 5523

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTAATAGTTAAGAGAAAATAANGTTTGCAGA
TTTTTAATAATCTGTTTGTAAAGGCTATCTCTAAGCCTAGTATGTGGGTAATTTTACAG
GTGTGTTTTTTGATAACTTTAATATAAAATAAACTCATTTTATTTGTGCCAAAAAAAAAA
AAAAAAAAAAGGTACAGCAATGAGCAAATCCAACCTCAGATCTGAAGTGTCTTCCAGTCT
GGCCCTGACCCAGCCATTCTCTGCCCTTCTTCTCCCTTTAGGGTAGCCCAAATCCCATT
GCCACACAACATCTCAACTTACCATCCCTTTCTCTATCCCCATCCCTCTGTCTGCGTC
ACAGAAAGTCTGTGTGTTCTGAANAGTTCAGCCTTCCTCTAACCAAACCTACACTTT

Sequence 5524

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGGGGTGAGCG
GAGGAGGGTGCTGCTTATGCGAGAGCAGGTTTTTGGGAGCTCACTAAAGCAGGTCCTTGAT
TCTGGTCTTGAATAGCGGAGGAGGAAAAGAAGATGATGGGGGAAAAGAAAAGAAGCCATT
TATGCATCCCTCCCTAATTCAGTATCCGANCCATTGAGGGGAGTTGTCAAGCTAGTGGGG
GAAGAAGAGAGGGTTTAAGTTTTGAATGAAGTTGGGAGTTTTTATTATTGCACTGAACTA
AATAGGCATTTTATTANAAAAAAAAAAAAAAAAAAAAAAAAAAGGTNCCTGCCCGGGCG
GCCGCTCGAAGCTCGATGGTNTACAGGCATTCANAGCTCTTGGGGTAAGGGTTTGGGAAG
TCAGGGCTGGTGATCACCCAGTCCTTTGAGTGA

Sequence 5525

AGGTACCGCGGGGGGANTCAAGGGNCCCCATTCTNGTGGGCNAACCCCTTGANGCNCCCCT

Table 1

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TNTCCAACTCCCTATTGTAGTAACTTGGAAACCTTGGAAATGACCAGGCCAAGACTCAA
GCCTCCCCAGTTTCTACTGACCTTTGTCTTANGTGTGAAGGTCCAGNGGTTTGCCTAGG
GAAAAAGAAAATCAAGCCAAGACCACAAGGTTGTTANTACCCAAGNAGTTGTTTTCTTA
AAAAATTGGGTTGCTAAAATTTTNTGGTCCCTTCTTCTTGTGGTCCCCTGGGGGGAAATT
ANCTTGTGCCCAATGGCCCTTGGGANGACCATTATTCANCTTCCAAATTTTTTCCTTNTT
GGAGGGNAACCANCAATGGAATATGGGGNATNGGGGGGTNGGNTCCTGGTNGGTTTAATT
TTTNGG

Sequence 5526

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTNGAAGCTGGGATATCTTACAGAGGAAGGAAAAATTAACCTTTTTTACTT
TCTTTCTCACTTTTAAATCAGCCAAAGTCAANCCCGTTTGCCAACCTGCATGTCCATGC
CTGTAAGCCCTTCTTTTTGGCCAAGGAAGAAAGGAAGAAAAAGAAANCCAGGGGC
CTGTATCCCCTGATTAAACACAGCACAGCACTCCAGGCANACATGCCCGGNGGNGGCTCC
TTTGCACCATTGACCTNAGGCCAAACACCTCAGCGCCAACAATGGGACCTCGGCCTTCCG
GCTAGGTTTGCCCCAGGCTGGGCAGGAAACCAGNT

Sequence 5527

ATATATAGGGCGAATTGGACTCCACCGCGGTGGCGGNCNNCNGGGCCAANCCTAAATGGC
TTGATNANNNCTGNGNNCACCTTANCCACTGGAAACAAAGCATAAAGTTACTGAGATGCN
TAATAGTGATTCTTTACCTGAAGATGCATTAATTGCATTGTGATTCAGCTGCAGTTTCAC
ATGAGCCAACACCANCTTAACCCCAAGGGGAGGGGGCATGAAAATGCAGCTTGTGCAG
GGATGCAGGGGGCTGCCCCGCNCATTGGGCCCCCTGTGCAGCCTCAGGATGCCAACGCCCT
GGTAGCCCCCTCTCAATGGAAGACGTGACTTGAGGGATACACTTGCNTGAAATGGTATTT
GATTTCCCGTCAGGCCTTTGGANGGCAANAACCCCAANTATCCGAAAATACCCCTGCGA
AGAAACCAAGAATTTATCTTGGGGCTTGTNGGGAAT

Sequence 5528

CTTTAGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGTGGTGGCCNGGCCGGCCCCGGCC
TTANCCCCCGCGTACTTTTTTTTTTTTTTTTTTTTAAATTCAAAGCCAGNTTTACTGCAA
AGTTTGCCTTNNGCCCTATACTTGGAGTTTACAAGTTACGTCCCTACATTTGCATAATA
CAACGAATTTAGCTTAAATTTGGAAACAGGGTAAAGTTTTTGTTCANAAATTGTTTGCAA
GAGGAACACTGGGCGCAGCTTAATGATCTTTTCTT

Sequence 5529

CCGCGGTGGCGGCCGGGCCGAGAGGTGGTTACATTCGTTGAAGGACACCAGCTGCGGAAT
TTGCGGCTTTGGCAGATTGAAATCATGGCAGGTCCAGAAAGTGATGCGCAATACCAGTTC
ACTGGTATTAAAAAATATTTCAACTCTTATACCCCTCACAGGTAGAATGAACTGTGTACGC
GGGTTTAAGAAGCGGACGGAGCTGTTCAATTGCCGCCGAGGGCATTCACACGGGCCAGTTT
GTGTATTGCGGCAAGAAGGCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATG
CCTGAGGGTACCT

Sequence 5530

TGGTGGCCGCCGAGCAGCAAAAGGCGCAGTTTACTGCACAGGTGCATCACTTCATGGAGT
TATGTTGGGGATAAATGTGTGGAGAAGCCAGGGAATCGCCTAGACTCTCGCACTGAAAAT
TGTCTCTCCAGCTGTGTAGACCGCTTCATTGACACCACTCTTGCCATCACCAGTCGGTTT
GCCCAGATTGTACCTCCTCCTGCTCCTCAAGAGTGGTGGTCTATTTTGCCATCATCACCT
GCTGTCTGCTTAGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGGACGGTG
GCACAAGGAGGCCATCTTTTCCTCATCGGTT

Sequence 5531

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTAAATAGGTCA
AGGCTCATTTTAAAAAATATGTTGANGGCGGGTNGGGGGNCTAATNCCTGTAATCCNAA
NACTTNGGNAGGCTGAGGTGGTTGGGTACCTGAGGTGAGGAGTTCCAGAGGAGCCTGGC
TAACATGGCAACAGAATGAAGACTGTCTCAAAAAACAAAAAATCAGTGTTTCATGTGAA
AACCTGTGCGTCAATGCTTATATCAACTTTATTTGTAAAAAATAAAAAATAAAAACTGGA
AACTGAAANANAAANTNNACNAACANNNAAGTACCTGCCCG

Sequence 5532

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTTTTCAACAAG
ATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCTCCTAAAGCTGAAGCCAAAGCGAAG
GCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATC
CGCACGTNACCCACCTTCCG

Sequence 5533

Table 1

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AACAAACTTGGAANAAGCAAAATCCAAACTTACCCTTTGCCTTTCGCAACATAAATATG
TACCTN

Sequence 5540

CGCGGGTGGGCGGGCCGTGTGGCGNCAGGGAGGACCCCTTACAGCAACCACAGCGTCGGG
AATCCGAAAGGGAAAAGAGGTGCGCAGGCGCCACACACGGCCTTTACCCCCGCGTACCT

Sequence 5541

CCGCGGTGGCGGCCCGCCGGGCAGGACGCGGGTGCCATTTGGAGGGTAGGGGATCTGCTT
CCCCTGTGACTGGGCTATGGGATTCTGACTACCTTGCTTACAGATTCATGGTTTGATAA
ATTTGTTGTATTCAAAAACCTTGAAATGCAGGACGCCATTAAGTGTCTGTTTATATTTTTG
GAATATTTGTATTACTTACAATTAATTAATAAAAGTGGGAAAAAAAAAAAAAAAAAAAAA
ANGTTCCTCGGCCCGCCGGGCAGGTACGCGGGGGGAATGTCTTACGCAAGCTGACAGTGG
ATGTGCAATTCTTAAAGAATGGGCAGATTGCATTACAGGAACACTTTTATTGGCTATN
TAGGATTATGGACTGGCCAGAGCCACACAAGTTTACAGTTTCTGGTGATGAACGAGATA
AAGGCTGGTGGTGG

Sequence 5542

GTGGNCGGGCCGAGGANCTTTTTTTTTTTTTTTTTTTTTTTTTTTNCTGGGGTGGTTATTTT
TCTTTTCTGTGTCCTTCCCCAACAGCAGTTGGAATTTTNTTTTGAACACAAAGTAAATTA
ATGTTTATACTGTTTTTTTACCTGAGTCATGTAAAAGNGACTCCTTTTCATTTTAAAAG
TTATATTTAATTTTTTGGGGGCCTTAATTAATAATTAACATTTAACCATGTGTTTTTTTTT
TGTAACACGTCTACATGTCAACAAATGGATAAGGGTTAACAAAGGCAAATACTGACTTC
ATTTGNGTTTTTAAACACGATTATATGAATTTTCTTTTTTAAATTAATAAAAAANGACNTAA
ACCAT

Sequence 5543

CCGCGGTGGCGGCCCGCCGGGCAGGACGTCTACAGTGAGCCTTGTGGTAAGCTTGGGCGC
TCGGAAGAAGCCAGGGTTAATGGGGCAAATAAAAGTAAAGTCTCTCATTTCCACCTGATG
AGAAACACCCAGAGGTGTGGAGGGGCAGGCCACCCCTTCAGGGTAGGGTCCCCTCCATGC
AGACCATAGAGCACAGGTGTGCCCCAAAGAGGAGCAGAGAGAAGGAGGGAGAGGGCCAC
GAGAGACTTGGAATGAATGGCAGGATTTTAGGCGCTGGACTTGGGTTCGGGGCACCTGG
CCTTTCCTTGTGTATTTCTCCTACTGTCTGCCTAACTATTTAATAACNANTNAAAAANAA
AAAAAANGTACCT

Sequence 5544

ATCACTACTATAGGGCNAATTGGAGCTCCCCGCGGGGGCGGCCGCCCGGNCAGGGTCCCT
TGCCTGTGCTGGGGTCCACCCCTGCCAGTGGCACCATGACCTCGCCAATGACATCATCCC
GAGAGAAGCGGTCAAAGCTGAGGACAAGGAAGTGCAGCACCAGGTCTGACAGCTGGCTGT
AGGGGATGCCATAGAAGGTGAAGGTCTCGTCAAACACAGGGTCCAGGGTCTTCCGCAGCA
CTCTGGTCTTCACCCGATGCCGTTTGTGAGGAAGGATGGTCATTTTGATGTAGGGGTCAA
ATCCCTGGGTCTGGTCATCCATCACTGGCAGCCCGTGGGCCTCCTGGATTGTCACCACCA
GGGCTT

Sequence 5545

ACTATAGGGCGAATTGGGACTCCCCGGGGTGGCGGNCCGNGGNCCTNGGCCAGGNCANAA
AGGGNCANTTGGGCAGGAAAATAAATTAAANGTCTTCTAGGTGGGAAGGGAAGAAGTATT
AACTAAATAGAGATGGGAGACGATATGGTGGTTTTGTGCATAGTAATCCAAGGGAAAAAC
TATAGAAAATCCAAAGGCATGATTTATTAATAAATAAAATTCCAGCAAAGTTTACAGGGA
TACAGGGATTAAATATTGCACGAAAATTTGGTTATNCTTTCAAATATTAGCTATTCCAAT
GGAATAAAAATGCAAAAAAATGATNGTTTAAAGGAAAAACCANATTTNTAAATTNTTTTC
AAACCAAATGGGTTCAAANGNCTCTGGGNTGGGGCNTTTGTTGCCCCCTGGTTATANTNTC
CCATACCNCCTTTTTGNGGGAAGATTCTTGNANGGGCACNGAAANAGGAACCTGGCCTTA
TNAAGGGGCCNCAANGGAAGGACCCCCACGGNCCCTTGGGG

Sequence 5546

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGNCAGGTACTTTNT
TTTTTTTTTTTTNTTTTTTTTNCNAAAANATGGGGTTTCTCCATGTTGNNNAGGGNNGCCT
TGAATCCCAACCTAAGNGATCCGCCCCCTNATNCTCCCAAANTGCTGGGATTACAGG
CGTGAGCCACCATGCCTGGCTTAAGAGAGATNCAATAATTAGGGGATCCTTAAAAAAAT
GGAACACTTTGTAAAAAANATCAAATTTTCACTTTTTTGCTAGGAG

Sequence 5547

AGGTACAATATGCTGCAGCATAATTTGTCAGGCCAACCTTCACACCATATTTTGGCAGTT
CGTGTGCATACGCTGCGCAGACTATCATATCCCCCTCTATACGGGCATAAGCAATCTGAC

Table 1

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AAATGATATCTCTGTTTGTACACGAACATCATCCTGTCCCGCGTACTTTNTTTTTTTT
TTTTTTTTTTTTTACGAATGAGGCAATTTATTAACCCAGCATGGTTTGTCTAATGCTTCT
TGTTGGCAGCTGCCACCTGTCCGGCGATTCTGTCCAGATCTCTTTGTCCCTGAGGTGTCA
AGTTT

Sequence 5548

CCGCGGTGGCGGCCGTTGCTGAGCTGGTGTGGAACGTCTGTGATCAGATTCATTGGGCTT
TTGCCAGCTCTTTTATGATTGTCTCTTGAGACCTGTTTACAGAGGAATGGCCAGAGGCC
ACAGGCACTGCCTCCTGAGACCATCCACCTGATGCGAAGAAAGCTAGAAAAGCCCAACCC
TGAGAAAAATGCTTGGGAACACAACAGCCTCACAATTCCGAGTCCAGCATGTGCTTCGGA
GGCCAGCCTGGGAAGTGACTGATTTATTGCTCACTGCTTTGGAAAATCCAGTAAAATATG
CTGAGGNCAATATGGAACAAAAGGACACAGACAGAATTATTTGTTCAACTAACATTCTTC
ATAAAAACCTGATCAGGACACTCCCAAGGGATTGGTNTTCTCAAGAACAATGAAAGGA

Sequence 5549

AGGTACTTCTCCTCTTAAAGAATTGGCCATTTTCATTTATCATGTAAATTATCCACTTTT
ATGCATAACATACTTTCCGGCACGCCGGAGCCGCAAAAGCCTCGACCGCTACGACTCCTC
TGTCCGCTACTGCCCCGCGTACGCGGGGGTAGTGGCTTCGTCTTCGGTTTTTCTCTTCTC
TCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC

Sequence 5550

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCATTNTTTTTTTTTT
TTTNGNNANAA
AAAANNTTTTTTTCNNTTNGGCCCANGGNTTNTNNGNANANTAAAAAACCNCCNTTTNG
GNNGGGGGGANNGGNTTAGNCAAAACCCNTTTNTTTTGNNGGGGNCCNTTAAAAANNCN
NNGGNCNAAAANGGNTTANANCCNCCNTTNAANGGNCCCTTTNAAAAAAANNNTTCCCC
ANCCNANCNTTGGGGCCNCCNACCCTGGGGGGGNNGGTCAGGGGGCCCCCCTTTTTTGG
AAAANCTNCCNTNCCNCTTNNNGNAAGGGGGNNNCCANAAANCCNNAAAAANGGGGGNCC
NGGNGGGCAAANCCCNGGGNTTAAAAACCCAAAGGGNCCNGGTANAATTTTTTNNCNAGG
GCCANGGNAATTTTANGGGGGNGGGGGGTTTTCCCCCCCCCTTTTANAGGGGGCTTTTT
GAANCCCC

Sequence 5551

NTAAGCGCCGTCAATCTCAAGCTCACTGCAAGCTTTGCCTCCTAGATTCAAGCAGTTCTC
CTGCCTTAGCCTCCTGAGTAGCTGGGATTACAGGCGCCTGCCACCATTCCCAGCTTAATT
TTTGGNATTTTTTAGTANAGACCGGTTNACCATGTTTGGGTAAAGGCTGGTCTTTNAAA
CTTCTTNACCTNANGNTTATTCNNNTTGCCTCCGTTCTTCCCCAAAAANNGCTAGGG
NTTAACNAGGCANTANANTCCACNNGGNCNCCCGGCCGCTTTTAGNAAC TAGTNGGATCC
CCCGG

Sequence 5552

AGGTACGTTGTTTAGCTGAAAGGGTCTTCTTAGATTTTCTGTGAGCACC AATTTGTTCTT
CAAGATACTTCTGCTGCATTTGAAGCAGCTGTTGGGTCTCCTGGAGCCACTCTTCATACT
GCTTACGCTGTGAAATCATTGACAAAGCCTGGACCAAATTTGGAGGATTCCCGCGTACA
TGGTGCCAACCGCCTCGGGGGCAAACCTCGCTTCTTGGACCTGGTTGTCTTTGGTCGGGGC
ATGTGCCCTGAGCATCCNAAGAAGTCATGCAGGCCTGGAGATAAAGTCCCTCCAATTAA
CCAAACGCTG

Sequence 5553

GGGCCTTAGACAGCANATGGTGGGGTGTGTGTGAGGGGTGGTATGCGTGCTGCTCTGAGT
TTAGGGCTGANTGTGCAAGCTAGGAGCANANGACAGNTCCAAGCCTGNCTTCTCACCAGT
NCGNCTGAGGTGGAAAAGAATCCAGCACTCTCCCCANCACTATTCCGACGTGGTCTCCCA
TCCCTNNGGATGCCAGCTCCTATTAGGAGGNGGAGAAAGAAACGCGTGCTTATACCAAAG
GCNCAATTAANAGAACTTTGAACGGTAATACGCCACGAATAAAATTTCACTACTA

Sequence 5554

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACAACGAGACTCTCGGGGTCC
CCGCGGTTCGGAAGCCACCATGCCCAAGAACGGATGGCTGCTGATTACACCCGCTTGCCCG
CCGAATCCTTCCCCGCGTACCT

Sequence 5555

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCCTCATCAG
AAAAAGAGCCCGCGCATTTCTCCTGCCGATGCCTTGTGCGTCTAGAGGACATTGAACTTG
TTCACAACTGGTTCATGGTGTGTCACGTTTTGGTGATGGTGCCGAGGTAGGCCATGAGC
CCCACGTNGTTGCATTTGATCATAAAAAAATCTGTCTTGAACCTTNGTCCTGTGCTGAGC

Table 1

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CACCNGGGAGACAGTTGACACAAGAGTCATAGGCCTCCCGCAGGGATCTNATGATTAAAG
GGGACCTNTCCCGCTTTNAGAGGCCTTGACCGTTACCTCGGCCCGCTCTAGAACTAGNT
GGATCCCCCGGGCTTGCA

Sequence 5556

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAGCAAAATAACTTAA
AAAAATCTTAAGAGGAGGAGGACAATGATATTTTNTAAAAACATATTTGAGGCTGGGCA
TGGTGGCT

Sequence 5557

CCGCGGNGGCGGCCGAGGTACCTATGACTCTGGCATCAGATTCTTGGCACCCCAGTCCCA
CTAGCTGTGGTCCCAAGAATGAACCTGCATTTTAACAAGATTCAAACCATTCAGAGGC
CAGGCGAGGTGGCTCACACCTGTAATCCCAGCANGTTTGGGAGGCCGAGGTGGGTGGAT
CACCTGAGGTCAGGAGTTNAAGACCAACCTGGCCAACATGGCGAAGTCCTGTCTCTACTA
AAAATACAAAATTAGCCNAGTGTAAGTGGCAGGCNCCTGTAAATCCNTAGCTACTCGGGN
AGGGCTNNANGCAGGAAGAATTTGCTTGAATCNCGGGGAG

Sequence 5558

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCACGGTACGATCTTGG
CTCACTGCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAG
CTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTGTATTTTGTAGTAGAGATGG
GGTTTCACCATGTTGGCCAGGCTGATCTCAAACCTCTTGACCTCATGTGGTCCACCCACC
TTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAAT
TTTTTAAAACTGACACCTATTACTGATAAAATTCTCTGTNTTAAATCCCTATTTACCT
ATTTTAAAGATAAAGTAATTAGTTTTTTTTTTTAAATACAAGTCCCGCCGTTACTTTTTT
TT

Sequence 5559

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATTGAGGGTGCTTA
AAAATGCTGAAGAACTTTAAACATGATTCTTCTTATAATTTTATGTGATTCTTATAGC
ACAATCATTTTGAAGAAAGGAAACTAGGCTGGGCNGTGGTGGCTCACGCCTGTAATCCC
AGCACTTTTGGGGAGGCCTNAGGTTGGGGTTGGATCACCTGAGGTCCAGGAAGTTTGAG
ACCAGCNCTGACTAACATTGGAANAAACCCTGTCTNTACTAAAAATACAAAATTAGCNTG
GNGC

Sequence 5560

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTTTGAGTCA
CTGGTGCGCCAGGATCCCCGCTTTGAAATCTGTGTGGAAGTCATTCTGGGGCTTGTCTGC
TTTCGGNTAAAGGGTTCCAACAAAGTGAATGAAGCTCTTCTGCAAAGAATAAACAGTGCC
AAAAAAATCCACTTGGTTCCATGTCACCTCAGGGACAAGTTTGTCTGCGCTTTGCCCAT
CTGNTTCTCGCACGGTGAATCTGCCCATGTGCAGCGGGCCTGGGAACACATNAAAAGAG
GCTGGCGGCCCGCTCTAGNAACTAGTTGGAATCCCCCGGGGCTGGCAGGAATTTTCGTAT
AATCAAAGCTTATCGATACCCNNTNNAACCTTCCGAGGGGGGGG

Sequence 5561

ACTACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCCGGGCANGGTACGC
GGGTCCTGCAGGAAGCCGCGTGACTCCCGCCTCCTCCCTGTGCTCTCTGGCTCTGGACTG
TGACTGCGCCTGGATTCTGCCATTGCGACACATTTTGTGCCTTTCAGCCCCCTGGTGTCT
GCAGTGGGGGATTTAAGGCACCCGCTTCCACTTNTTCTTGTNTGGAGTTTTNTGTTGGA
ACCGCCGGCGTTGGCTCCGAANACTTAACGACANCCACTGGCGGCACCTTCTNCTGCGCC
CAGNTGATGTATCCACNNGTGCCTGTAACCTCGGCCGCATCTAAGNAACTAGTTGGATCC
CCCGGGCTTGCANGGAATTTCCGATATTAAAGGCTTTATCGATTACCCGTCCGACACCTT
GAGGGGGGGGGG

Sequence 5562

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCNNGGTACGCGGGGACTNAC
AAGCTTGGAACGCATCCTANCCGCCGACTCACACAAGGCAGGTGGGTGAGGAAATCCAGA
GTTGCCATGGAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACT
CTGGCCAAGAGATACCACAAGTCATAACCTGGAGCCAAAANAGGACACAAAGGGACTCTC
GACCCAACTGCCCCAGACCTNTNCANAGGTTGGGGT

Sequence 5563

TTGGANCTCCCCGCGGTGGCGGCCGAGGTACACATGGTAGGCTAAAAATTAAACTGCTT
TTCCACANAAGTATAAATTACTAGATTCTTGGTTCTTTCATGATATCATAACATTAAAT
CATTAATAATATAAGGCAATTTAATGTAACTACTAGCATTTACAAAACAAGTAAAGTTA

Table 1

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TAAAAAACTGTAATTACCAAGCAAAATGCACCAAATACCAGNTGAACATGAAACCAGG
GAGTTGAAGTTTGCTGGAGAACATTNAAAATCACTTTTCAGNGGGTTTCACTTCACAATT
NCATGCTGCACTGGGCCTGACACGTTACGCNACCATGAAGCANACACTTTTGGCAACNTA
GAAATGTTAANCTTTTCTGTTTTGACTTTTTTTATCTTAAAAATG

Sequence 5564

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCACAGCT
GGTATTACAGGCTACAGGAGTTTCAAGGTAGGGAAGGATGGCTGTGCATGGGCCCAGCCC
TGTGGAGGGTGGTGGTCTTCAGCCANTNNAAGGCCACCAGATCTGCCACTGAAGTAGGAC
CTTGCTTNCAATGGTGACAAGCCCTACAGCAAGATCTACAGGCAGACCTTAACAAGATAC
AAGGGCAATTTTCTCTTCTTTCGNAATTTTCCTAAGTTTAAAGTTGGGTTGACCCGTTTT
TTACAAAACCTTCAACAACTGGACAGTTTCCNACAAGACNCTGGGAGGAANAGGATCCTA
ACCCTTCTTCTGCTTGGGAANTCATNAANGCCNAGGTTTTTANTTATTTTTCCTTTGGTC
C

Sequence 5565

NCCGCGGTGGCGGCCGCCCGGGCAGGTACACAGGGAAAGATAATAGGGAAGAGATGAGGG
GGGGAGTTCTCCATGACTAAAGAAGAAAAATATATGTAATTTATGGGTAGAAAGGAGGAA
TTCTGCAAAATTTTGCAAGTGAAATGAAAAACAGTACTCGAAGTATTCATATAGGGAAG
CTCCTCACTAATGGCCTCTTCTACCAGCAGCGATGTCTCATATGTCCAGCAGCGGGCAAC
ATTTCCGACAGTATAACCACCACCACCAGCAGCAGTAGAGGGATATTGAAGCTCTTGAC
ATATTCAACGCATTCCCCATGCCCTCGGATGCTGAGGTTAAAGCAGCCCAATCGATCACA
GCCCAGAGAG

Sequence 5566

GGTGGCAGGCCGCCCGGGCAGGTACTGTTGACATCAGATCTGCTGGGCTGGTGCCACTGG
AGCTGATGTGGTCTTGTGACTCTTACTGCCCCCAGCATGGCTCTGCTGGCTCCAGCTGG
ATGGCCCATCTCCTGTCAGTAACCTGGTCCCATCTGTTTTGTCAGATGACCCGTTGGCTTC
CTGACCACCTGGCCGCCCACTGCTATGCGTGCGACAGTGCCCTTCTGGCTTGCCAGCAGGA
AGCACCCTGCAGGAATTGTGGGAACGTATTCTGCTCCAGTTGTTGTAACCAGAAGGTTC
CAGTTCCCAGCCAGCAGCTCTTTGAACCCAGTCGAGTATGCAAGTCTTGCTATAGCA

Sequence 5567

GGNGGAGTGACCTGGGGCTGTGGAGAGCGACCCGNGGCCTTGTGTTTCANAGTTTACCAC
CTANGNTGACTTTAGTGACTANATCGGAGATCATAGATGAAAAAGGACCANTGATGTCTA
AGACTCATGATCATCAATTGGAATCAAGTCTCANTCCTGTGGAAGTGTTTGCTAAACAT
CTGCCTCCCTGGAGATGAATCAAGGCGTTTCAGAGGAAAGAATTCACCTTGCTCTAGCC
CTAAAAAAGGGGGAAATTGTGATCTCACCCACCAGGAAAGACTTCAGTCGAAGTCCCTTC
ATTTGTCTCCTCAAGAACAATCTGCCAGTTATCAAGACAGGANGCAATCCTGGCGGCGAG
CAAGTATGAAAGAAACGAACC

Sequence 5568

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTGTCTGGGCTCGGGGCGCGGCGG
CAGTCAGCTCTATGTTTCGCGGTCTTAACCTCTCCTCTGGCCGAGTCCTTGCAAGAAGTGA
ATTACCCGACCCTGCAAAACACTTACTATTTTGGAGTTTAAAGTATGTCATCATGGCAAA
GTTTCGGAGAAGGACTTGCATCATTTTGGCACTTTTTATTCTATTTATTTTCTCTCTGAT
GATGGGTTTAAAAATGCTGAGACCAAATACAGCTACTTTTGGAGCTCCTTTTGGACTTGA
CCTTCTTCCAGAACTTCATCAACGAACCTATTCATTTGGGGAAAAATTTTGATTTCAAAA
GAGTGACAGAATCAACAGTGAAACAAATACCAAGAATTTAAAAAGTGTTGAAATCACTAT
GAAACCTTCCAAAGCCTCTGAACTTAACT

Sequence 5569

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGTTGACAAAAATGCC
AGATCAAATGGATTTGAGAAATAAGCCCAATTCAAGGCTGGCTCAGCCCTCCACGGGGCC
TCCCAGGGAAAGGAATTCCTTTATGTTCTTGGAAAGCCCTTTTCTAGAAAAGCCATTCCAT
TCATACCTTTGTAGAGCAGTGGGCTGGGTGTGGAGGGCAGCGCGGAGGGTATCTGCAAGA
GCCTGTATTTTCCGCCTCCCTTGCCCCCACTCCTTTTATCCTTTTAAAGTCCTATCAGC
CCTGCCTTCGTCCCTTCCGCCCTAAGCCCTAAGAGTGGGGGAGGTTTAAATACGGCCAATG
GGATCTTGTATAAAGTCTACCGTAAGTTTAAATTTACCAGAGCTATAAAGATGGTTAAGG
TAGACTAGTGGGGGACTGGCTACAGATAAAATGAGATNCAAAAGAACATTTGCAAAATNAA
TGCCCTAAAAATTACAAGTNNGCTTGGGAATTTTNNNTGAAATCAATGGCCCTTGGGNTT
TTTTAGAATGGCTAANTTTTTCAAGCTGNNTTCCTTAAACTTTAATTTTGACAATNTNANN
ATNTNAAANCTTTGGGGGGGG

Table 1

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Sequence 5570

GAATAGGACTCCCCGCGGTGGCGGCCGAGTACATATTGTATCTGTGTAACATTTTGTATA
TTCCAGGGGTAGGGCCGCCCCCTGTATCATACCTAGCANAGGTTGGAGCTGGCACATGGA
GAGGAGGTTCTAATAATTATTTGGGGCTGGGAACTTATTTATTGATAGCATAGGACAGA
GGAAGGAGGTCNAGCGGCCGCCCCGGGCAGGACATTCATTCTCTCAGGAAAAAAACAAGG
TCCCCACAGCAAAGAAAAGGAATAGGATCAAGANATACGTGGCTGCTGGCAAGAGCAAGC
ATGAATTCTG

Sequence 5571

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGATTGTGGCAGCTGGAGGTCTCTGCAT
CGCTTATCCGTTTATTAGCCGGACCAAGATTGCACAGCTAAAGTCTGGCAGAGACTCCAC
GGTATGACTGTCCTCACTGGGCCTGTCCACAGTGCGAGCGACTCCTGAGGGGAACAGCGC
GGAGTTCAGGAGTCCAAGCACAAAGCGGTCTTTTACATTCCAACCTGTTGCCTGCCAGCC
CTTTCTGGATTACTGATAGAAAATCATGCAAAACCTCCCAACCTTTCTAAGGACAAGACT
ACTGTGGATTCAAGTGCTTTAATGACTATTTATGCGTTGACTGTGAGAATAGGGAGCAGT
GCCATGGGACATTTCTAGGTGTAGAGAAAGAAGAACTGCAATGGAAAAATTTGTATGAT
TTCCATTTATTTTCAGAAAGTTTGTATGTAACAATTACCCCGAGAGTCATTTCTACTTGCA
AAAGGATTCGTAACAAAGCGAGTATAATTTTCTTGTCAATTGTATCATGCTTGGTAAATTT
TAATGCAGCATCTTCAGAACTTGTCCTGATGGTGTCTTATTGTGTCAGCACCAATATTT
GTGCATTATTTGGTGGGNCGTCTTGGTCACAGGAAGAATCTTCTTCNGGTGCCTTAATG
GTTTTTTTTTTT

Sequence 5572

CACCGCGGTGGCGGCCGCCCCGGNCAGGTACTGTGAGGAAGGAAGGACCACTCCACAAGAT
CTGTGTTTTGAACAATGATGCCTGTTAGGGAATGTGCANTANCAAAAATCAAAATTTGGG
GTGGGGCCAAGTGATCTATTCTATTTACTTGTGCTGACCGAATTTTTTCTTCAATTAATT
TAATTTCTTTAGTTGCCTCTGGAGTTAACGTTCTTTCACTATTTAATTCCNAGTCCCCTC
TTANGAAAGAGAACAAATNNNACATGGCNTAANTNGGAATGCCTAGAGTTGGCCAAATCC
AATTAATATCTCCAAATCCAATTACNTATCTNCTAGCANNCTTTTGAAACTCATTTAATG
CTTTTAATGTGTCTTTTCTTATTTCTATTTTTTGTGGTTTAATTTTCCTTTCTCTACCT
GCATTCCCAAGTNACGGAAANGAGTAGAGGTTTNGAATCTTATCA

Sequence 5573

GCCCCCCTCGAGAGTACTTCTAGAATTAATTAACAGCGGGTTTATCAACAAAGAACCCT
TAACACACCATACTATATTGCAATCCCTATGGTACCAGACTGTGCGAAAGAACATCTTTT
GGGAATGAAGTCATGAAAGAACAAGTTTGCTNGTGACCACCTCAGAGTNTCAAACCNTN
CCTCCTCCAGCAAGACCCAACCACAAAACCTGTCTAAAGGCGCCCTGAGTTTGAGAATTT
TAGTGTNCTGCTCTGGGTTTTTCCAGGCTGCCTTTTTTTTTGATACCANGCTTGCCCTGCC
TGTACCATTTTTTACTGCATANGCAGGCTGACAGCTCAGACTGACTGATGGCGGAGCCTG
CCTC

Sequence 5574

AGTACTTCTAGAATTAATTAACAGCGGGTTTATCAACAAAGAACCCTTAACACACCATACT
TATATTGCAATCCCTATGGTACCAGACTGTGCGAAAGAACATCTTTTGGGAATGAAGTCA
GAAGAACAGTTTGCTGTGACCACCTCACAAGTCTCAAACCCTTCCTCCTCCAGCAAGAC
CCANCCACAAAACCTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCTGCTCTGG
GTTTTTCCAGGCTGCCTTTTNTCTTGATACCAGNCTTGCCCTGNCTGTACCATTTTTTACT
GCATAAGGCAGGCTGACAGCTCATACTGACTGATGGCGGAGCCTGCCTCACAAATGTN

Sequence 5575

AGTACTTCTAGAATTAATTAACGCGGGTCTATCAACAAAGAACCCTTAACACACCATACT
ATATTGCAATCCCTATGGTACCAGACTGTGCGAAAGAACATCTTTTGGGAATGAAGTCAG
AAGAACAGTTTGCTGTGACCACCTCAGAGTCTCAAACCCTTCCTCCTCCAGCAAGACCC
AACCACAAAACCTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCTGCTCTGGGT
TTTTTCCAGGCTGCCTTTTTTCTTGATACCAGGCTTGCCCTGCCTGTACCATTTTTTACTGC
ATAGGCAGGCTGACAGCTCAAGACTGACTG

Sequence 5576

AGTACTTCTAGAATNAATTAACGCGGGTNNATNAACAAAGAACCCTTAACACACCATACT
ATATTGCAATCCCTATGGTACCAGANTGTGCGAAAGAACATCTTTTGGGAATGAAGTCAG
GAAGAACAGTTTGCTGTGACCACCTCAGAGTCTNAAAACCCTTCCTCCTNCAGCAAGACC
CAACCACAAAACCTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCTGCTCTGGG
TTTTTCCAGGCTGCCTTTTTTCTTGATACCAGGCTTGCCCTGCCTGTACCATTTTTTACTG

Sequence 5583

Table 1

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CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGAAGTAGATTGTTTCTGCTAGGCAATATAATCTGCTAATGTGACAGTTTCCCT
GTAACAATGTGTAGCAAACTCTGCAGGATTAATGANAANAATGTATTGCCTTTGAAGCA
GCNCCACTTGAGTAAAAATTCCTCAAATGTGCTCTATGTTATGCTAGTGTAAGTATAGCA
CCGGAGGATATTTCTTGGGCTACTTTGCAAGCCTNTGAGAGGTGCTGTGCAGCTCCGAC
CATGAAGTCTCTCCTAATTGAANAGGGTCCCAGGAAGGGGAAG

Sequence 5584

CGCTTTTTTTTTTTTTTTTTTTTTTTTTGAGGTGGAGTCTTGCTCTGTCACCAGGCTGGAG
TGCAGTGGTGCAATCTTGGCTCACTGCAACCTTCCCCTCCTGGCTGAGTTAACTTAGGAG
AGCTTCCTGGAGAGGGCACCTTTGAAGATAGGAAGGATTTTCATGAAGTCTTACTAGGCC
ACTAGAGTAGAAGCAGNNGGAGACTTCCTGGAGAAGAGCTCATGGAAAGAAAAACCTACC
GCTGGCCCTTTGGGAAGTCTTTGGGCCTCTTTAGTCCTAGGCTCACACGCCCTTAGAA
ACAAAGTAAGAATAAAGCCAGGGATAATACAGTGAGTGGCCAAGAACACAGACTCTGGAG
CCAGACTACCTGGGTTTGAATCCCAGTTACCAGCCATGTGACTTTGATCAAGTTGCTTAA
CCTTTGTGTGCTTCAGTTTCCTCATCTGTAAAATAAGGGGATGGTAATTGTGACTTCCCA
GAACTATGGTGGAGAGCAAATGGGTAAAGAGTGTGCCGCTGTAAACTGTANAAGTGCTGG
GCTTTCATTGGGGAAGTATTACCTTTCATTGCTGCAGTTGAAACTGGTTGCTGGGGCNAN
TTGAAAAAGGAGTTAAAAAA

Sequence 5585

NTNGAGTACTTCTAGAATTAATTNNCGCGGGCATTGTTTGCAGAAGACCTGGACTGGAAT
CTAACACTGTGAGTNCCTCCCAGGATCCGTGTTCTCTTTAGCCCAGGCATGCAGTTA
CATTACATTTTCCAACCTTCCTTGCAGTTAGCTACGATCACGTGACTGCATTCTGGCCAG
TGGAATGTGTGTGGAAGTGATGTGGGCCAATTCCAGGCCTGGCCTATAAAAATCCCCAC
TTTTTGTTCTCTTCTCCATCCACCATCTGCATGGAGAGCTCCCAGCACTAGAGGGAGAA
AAAGCCACCAGAGGGAAGGAGCCTGGGTCCCTGAATCACTGTGTAGACTACCTGCCAAAC
ATACACCTTGAATTGTTATGGCAATAACAAATAAACTCCTAATGTGTTAAGCCATTTAAA
TTCTGGGGTTGTTACAGCTGTTAAGCCCAGTCTGACTAACATAGCCTCTTAAGAGGCTTT
GGATAAGTTTCTAGCCTNCCTGAGCTTCAGTTTCCTCATCTCTAAAAATGATAATTGGA
AAAACCTTTCTGAAAATGACTGGAGCTAATATTT

Sequence 5586

CCGCGGTGNGCGGCCGCTNNNTTTTTTTTTTTTTTTTTTTTTTTNTTGNAGCACAAAAAT
CTGGGTTTTATTTATTCATTTGTAACTCAAGCCAGTTCTCTATTCCACTTTTTCCAATT
ATTTGCTTTTGAGAGTCTCAGGATTATCCTTCTTCTCTCCTTCCACATTTTCTCCCCTG
TCCCTTCTCCTGGCCATGCTTNTCTAGTCCCGACGGTCTTGTTTANATCACAATGCGGTT
TGTANATTTTCTTCACTCTCTTTTCANAAAAAAATGCCAAAATGGTGTTTAAAGAAGC
TTTTATTGAGCCAACTGAACCTCAACAAAGCAAACGAAAACATAAAGTAGGGAAAGGAAC
CCTCTTCAACAAATGGTGTTGGGATAATTGGCAAGCCACATGTAGGAGAATTAACTGGA
TCCTCATCTCTCACCTTATACACAAATCAACTCAAATGCCCGCGTTAATTAATTCTAA
NAAGTACTCTCGAGGGGGGGCCCCG

Sequence 5587

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGNACAAAAATCTGGGTTTTATTTATTCAT
TTGTAACTCAAGCCAGTTCTCTATTCCACTTTTTCCAATTATTTGCTTTTGAGAGTCTC
AGGATTATCCTTCTTCTCTCCTTCCACATTTTCTCCCCTGTCCCTTCTCCTGGCCATGC
TTCTNTAGTCCCGACGGTCTTGTTTANATCACAATGCGGTTTGTANATTTTCTTCACTC
TCTCTTTCANAAAAAAATGCCAAAATGGTGTTTAAAGAAGCTTTTATTGAGCCAACTGAA
CTTCAACAAAGCAAACGAAAACATAAAGTAGGGAAAGGAACCTCTTCAACAAATGGTG
TGGGATAATTGGCAAGCCACATGTAGGAGAA

Sequence 5588

CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTAACTTTGGACAGAGACT
ANGATCTTGCTATGTTGCTGAGGTGCTCTTGAACCTCCTGGGCTCAAAGAATCCTCTCAT
TTCAGCCTCTTCAACTGCTGGTATTACAAGCATGACNCCATATGGGCTGGAAGCTGATTT
TTAAATACTGAGACCATATAGATGACAGCACCCAGAGAAACAGAAATATTAAGTGAAGT
TGTTGCTGGCAGACCATTTCTTTCTTTCCACCTTTCTTTCTTCTCCTTCAATATCCCTTCACTG
TTTCTCTTTCTCCCTTTCTTTTTTCTTTTCTTTTCTTCTCCTTCAATATCCCTTCACTG
CT

Sequence 5589

Table 1

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TNCCGGCGAATTGGATNTTCCNGCGGTGNCGGCCCGCTTTTTTTTTTTTTTTTTTTATTC
CTAATTAGATGGGGNNGAAAGTCTTTTNNNTAGGAACCTCTACGTTTTACAGCCTTAATAT
CATNGTGTAGTGAGTCTCACCACCTTTATTCTTCTTTGTCAAGGTTGATTTAGCTATCTGA
GATCTTTGNCTTTTCATATAGATTTTAGAGTAAGTTTGTCTATGTCTACATAAAAGCTTG
CTGGGATTCGAGGCCGGGTACGGTGGCTCACGCCCTTTAATCACAACACTTTGGGAGGCTG
AGGCAGGTGGATTACTTAAGGGCAGGAGTTTGAGACCAGCCTGGCTAACAGTGGAACCT
GTCTCTACCAAAAAAATCAAAAGCTGGGCGTGGTGGCTCACGCCCTGTAATCCCAGTACTT
TGGGAGGCCGAGGTGGGTGGATCACGAGGGCAGGAGATCGAGACCATCTGGCAAAACATG
GTGAAACCCCGTCTCCACTAAAAAATCAAAAAAATTAGCTGGGCTTGGTTGCCGGCGCT
TGTAAGTCCCAACTACTTAAGAAGCTTGAGGCAGGAAAATGGCGTGAACCCCGGANGNGGA
GCTTGCAAGTGAGCCAGACCGGCCACTGNACTTTACCCGGGCGAATGACCAAACCTTTTN
TNAACCAAACCNAAACCNAAA

Sequence 5590

CNTCCTAAAGGGAACAAAAGCTGGGNNCNGNGCCGGGCCCCCCTCGAGAGTACTTCTAG
AATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCAAGTCAAAATAA
TGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGAACGTGCACACG
GACCCAATTTTCTGTAACTCAAGGTGGTGTAAAAGGGGCAACCATCTGGTCATTTCTT
CGAGTTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATATGTAAGCCTATTT
TTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTAAGGAGAAAAATGT
AAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTGCCGTGGACCTAGCTAAAACT
GGGTGGCCTGGGCTCTCCCTTCCAGATAAAACTTCTTTTTTTTTTTCTTTCTGAANATG
GTAAGGTGGA

Sequence 5591

CCGCGGTGGCGGCCCGCTNTTTTTTTTTTTTTTTTTTTTTTTTAACTTTTAATTTCTGAT
CGAGTCACAGANNGATTTGTTGAGTAGCTTCAGCACTTCTTCTTTGTCATTTTTTTCTG
TCTGATAAGTCATGCCATGGACGTTACCCATTTTTATCCCAGAGGCCTCTTACGTTGACT
TGAAAAGACGGACTATGTCTTTCAGAGATCTTGTGGGTATCACATCAATCTTGACAAATT
TTCTACCCTCCAAGTCATGATCCTAAGAACAGCTTGCCTCCCATTTCTCCGGTTTGTGCT
ATTATGAAGGCCTTATTGTTTCAGCCTTCTTCAATCTTGAGGGTTGTTGTCACTGTATGG
GTGGTTCAAGAAATAAAGTAGGTCCTGTTACTATGAAGGGGGTCAACAAGCTTTTGTGTC
ATATCTAACTTTGTGGCTCATGGAACAGTATGAATGCANAATGTAGCTTTCTCCACTTG
TGGACTGCTTTGCATAGCTGCCAAAGGCCTCCANAGAAAACCTTCAGGGCTTTGNGGTCT
TTATCTGTAGCACGGATCTTAAATTTGNGGGTTCATAGGTCAACTGGATACAGGGCATTT
TTTGGGACAATTTCTGGCATTTTTTGAACAANACAAAATTTTTTTNCCANGNATATTTGC
ATTGGACCTTGGTNCCGNTTGAAGGGAAGTCTGTTGNCCAACNTTTGCAATGCAAACCC
ATGCCCCCTNGATTTCCAAAATTTNTGTNGGGNAACCCANAGAATTGGAANGCTTCAGGGG
AAAATATNATTTTATAGAATACTTNTTTNTAGGCNNGGGNNGGAACAAAAAATNGACCG
CACCAAGGCTTTTTNCTTTTTTTCTTTTTTGGGNNNNCCCAAAAAAAAAAAAAA

Sequence 5592

AGTACTTCTAGAATTAATTAACGCGGGGAATCCGGTGCGGACGCACGCGAACTCTGCCCCG
GGAGCCGAGGTGACTGATCTANCTGNTCTNGGTAATAANNATTTGCAAAACACATCTGAC
CAAAATCCTNTTAANTTCATGAAAGCTNNCTTTATAGGATGATTTTTGAAGAACCAGTNT
TATTAANGAGATTACACCAAAGCATAAACAATTTATACGTCAAACCTCCGACTGAAAAAA
AAAAATAACCGATNAAGGNATGTTTTTTA

Sequence 5593

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTT
TTTTNACTAGAATNGTTNTTATAGGGCTTCCGTTATTTATTTTTTATTATTATAC
TTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCTACATATGTATACATGTGCC
ATGTTGGGGGGGCTGCACTCATTAACCTCGCCATTTATATTAGGTATATATACGTGTTTAT
TGNACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTATTCATCTTTATTTGCCTT
CGTTTTTTGAGTTCCCTTATTCATCCTAAACAAAATATAATGCCTGACTCATAGTCAGA
CTTCACAGTATTTTTAAATGAATTACATTGCATTGGGGAAATATAAATAGTAATGTCCTT
TTATAGAGGAAGTCTAAAAGAAA

Sequence 5594

TTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTT
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAN
AAAATGCANAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGNG

Table 1

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ACCACTCTTAATATTTTGNNGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTNTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAA

Sequence 5595

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCAT
AGTGAAACTGAGAGGTGACCACTCTTAATATTTTGNNGGCATAAGCATTCCAGTCTTTTAT
CTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
TTTTTTGTGACCACATAGTATCCTATTATATTGATAATACCATAATTTACCTAACCCATT
TTTATATATTTGGATTTTTTCCAATTCATCATTATTATGAATAA

Sequence 5596

GAGGAAGGCACCTACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTA
CAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGA
AACTGAAGCTCAGGGAGGCTAGGAACTTATCCAAAGCCTNTTAAGAGGCTATGTTAGTC
ANACTGGGCTAACAGCTGTAACAACCCCANAAATTTAAATGGCTTAACACATTAGGAGTTT
ATTTGTTATTGCCATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGNGATTC
AGGGACCCAGGCTCCTTCCCTNTGGNGGCTTTTTCTC

Sequence 5597

TTTTTTTTTTTTTTTTTTTTTTTTTTTGANAGACAAACATGGGCCACATTTTAAAGACAAAC
ATGGACCACAACCATGCTGAGAGAACTTANAGTGAAGTTTACATGGCTATCTTTCTTAGT
ATTANAAATTTTACCTGATAAACATCAAACATACGACCAACATAGCATATAAAGCAGCTC
TACANATATTTTCCCTACTGCCCCAAATATCATATAATGCACATGTAGGTCACATGTGAGT
AGGCAAGAGATTTNTGGAACACAGAANCAAGACAACAGGATCACAGCAATTTTCAGTATGCT
CTGCTTGTATAGGAAATCCCCANAACATTCTCCAATTACTGAACAAAAAAGCAATAAA
ACTCANATTTGTCTGCCTGGGGAGAAATAAAC

Sequence 5598

TACTACTATAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTGAAGTAGATTGTTTCTGCTAGGCAATATAATCTGCTAATGTGACAGTT
TCCCTGTAACAATGTGTAGCAAACTCTGCAGGATTAATGANANAATGTATTGCCTTTG
AAGCAGCNCCACTTGAGTAAAAATTCCTCAAATGNGCTCTATGTTATGCTAGTGTAAGTA
TAGCACC GGAGGATATTTCTTGGGCCTACTTTGCAAGCCTCTGAAAGNGCTGTGCAGCT
CCGACCATGAACTGCTCTCCTAATTGAANAGGGTCCCAGGAAGGGGAAG

Sequence 5599

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGAAATATGCCCAACCATTTTCAGGTTGAGCCACGGATAAGGAGGGCTTAGCTC
ATGTCTCCTGNNGGAATTGAGGCATCTCAGGAAACAGTATAGAGTTGGTACAGTTAGAAT
GANAGAANCCTGGGGAAAGAAACCAAGAGTGANAAATGCGTGGCTATTTTGACTTANCT
GGAGCAACCCTNTCATAACAGGCTGGGAAGTGGACCCNCGTTAATTAACNCGGGGGAAT
TGATGAACAAACAAAGGTCATAGTAAAAGACAGACTTTTGGGGATAAAAACANAAAC

Sequence 5600

AGTACTTCTAGAATTAATTAACGCGGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTG
AACGTGACACACGGACCCAATTTTCTGTAACTCAAGGTGGTGTAAAAGGGGCAACCAT
CTGGTCATTTCTTCGAGTTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATA
TGTAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTA
AGGAGAAAAATGTAAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTGCCGTGGA
CCTAGCTAAAACTGGGTGGCCTGGGCTCTCCCTTCC

Sequence 5601

AGTACTTCTAGAATTAATTAACGCGGGGGGACGAAGCGCAGCCTGCACTCCCAGATCCGC
TCATTTTCGTTCTGCCCTCCGTTTTTACGATTCGCCTACACTGAAAATGCGTGAGTGGAGT
GGAAAGCCTTCCTACTCCTGCCTCAGCGACCCCTTCTAAAATACTGCCTCGTTTGGCCTG
AAAATGTGATTTGCAGGCTTCCTGAGCAAAGTAGATTTCACTCCATTAAAGAAAAAAA
AGAAAAGGCACCGAACGGGGCTCGGCTGTCGGGAGTTTTGCTTTAAAAAAA
AAAAAAAAAAAA

Sequence 5602

TCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT

Table 1

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TTTTTTTTGAANAATCAACAGACTNTATNTTTGATCACAAAGCAAAAGTTTAAGTGTATT
ACTTAAAATTTTAAGACAAAATCTGGAATAATTATAACTAACACAAATTTTGAGGTAGAG
GAAGANAATTCTAGAGATAGGNGAGATAAAATTTTCATCTTTGATAATGAGTANACAAAA
ACNCTACCTTTAACAAGGGAAGAATTTAAAAAATTTAGAGAAGAGGAAATCATANGNGGT
TTTTAAAATTTATTATNCATATCGNGGTAAAGATAATCCAACAGAAAATGAGATTTGAAC
AGACNCTTCACAGGAGATAGACAAATGNCTCAACCTCATTAGTNACCANACAAATGCCAA
ATT

Sequence 5603

AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGA
ACGTGACACACGGACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCATC
TGGTCATTTCTTCGAGTTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATAT
GTAAGCCTATTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTAA
GGAGAAAAATGTAAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTTGCCCGTGG
GACCTAGCTAAAACTGGG

Sequence 5604

TTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAGGCTCTATTTT
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTTGTGCTCATAGTGAACTGAGAGGNG
ACCACTCTTAATATTTTGNNGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTGATTT
TTTCCAATTCATCATTATTATGAATAAT

Sequence 5605

AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGA
ACCGTGACACACGGACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCAT
CTGGTCATTTCTTCGAGTTTTTTTTTATATTTTGGTATAAACTCCCTGGTGCACATAATAA
AAATATGTAAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCA
CCCCTAAGGAGAAAAATGTAAATTTACCTACATGTGGAAATTTAGTTTGGGAG

Sequence 5606

AGTACTTCTAGAATTAATTAAGGCGGGCTATTTGTACCACTACACTCCAGCCTGGGTGAC
AGAGTGAGACTCTCTCAAACAAAGAAGAAAAGATAAACAAACAAAAAAGAAAATTGAC
ATGTTAATTCTAAAATTAATATGAAAATTTAAAAATTTAAATACCAAAGTAATTTTGAA
AAATAACAAAGCTGGAACTGGTCTTGCTGACTTTGAGACTTGTAAGCTATAAAAATT
AAGACAGTGTGATAATAATCTCAAACCTATACAAATAGTTAAATATGACAGAACAGGTAGA
CCCACATATATATAGATAGCTGATTTTCAAGAGACATGCAAAGTTAATTCATGGGC

Sequence 5607

AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGA
ACGTGACACACGGACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCATC
TGGTCATTTCTTCNAGTTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATAT
GTAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTAA
GGAGAAAAATGTAAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTGCCCGTGG

Sequence 5608

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGACCAGAGAGGCCCAAACCTAGCAGCCTGTCTCCTCAGTAGCCCCAGCATCC
CTTCATCATTTTGTGGCCCTTCTATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTNA
ATTTTNTATTGNTATTTATTTTATTCTAAAAGATAAGGTCTTGCTATGTTTCCCAGGCTG
GTCTTGAACCTCCTGGCCTCAAGCAATCCTCCTGCANCANGCCTCCCAAAGNGCTGGGATT
ACAGGCATTGANCCACCACNTTGGTGANACAGGCNTNGTTTTTACAAANTNTGTGGGTG
GGATAAATGCTGTCCAGGCTTACTTNATCACT

Sequence 5609

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGACCAGAGAGGCCCC
AAACTAGCAGCCTGTCTCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTGGCCCTTC
TATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTAAATTTTATTGTTATTTATTATT
CTANAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACCTCCTGGCCTCAAGCAAT

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTT
TGCTGAGATCTTCTTATTC AACCCATATCAATTTGACTGGACTTGTAGCATTCAAATATT
AACACAGATTTCAAATTTTAGAAAGATATTTGTACTAGAATACTTGCAGGTA ACTCTGTG
GATTNATTAGTATGGAAATTGTTTATAAAGACACACTCTGAATTTTGTGGTCAAGTAGG
GTTTGTAGAATCTTTGATAGCC CAGCATGTTAAAATGTAAATGTTCTAGAAAAATAATCT
TTCACTTTCCCTGNGAAAAGACCCCGCAAAAAGTTTTTTTGAGGGGNGTGTTAAATATATA
AATTTTGAAAGACGTAAACAAAATAGTTAACTATCTACTTATGATATTTAATAGTTTGGC
CAGGCATGGCAACTCATGCCTGTTGTAATCCCAGCGTATTGGGCGGCTGAGGTAGGANGA
TTGTGTGAACCCAGGCGTTTGAGACTGCAGNGAGCTATGGATCCTGCCTGGATGACAGGG

Table 1

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AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGNNGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTG

Sequence 5624

TTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTT
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGNNGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTTATA

Sequence 5625

TTTTTTTTTTTTTTTTTTTTTTTTTTGAAATATGCCACCCATTTTCAGGTTGAGCCACGGA
TAAGGAGGGCTTAGCTCATGTCTCCTGTGGGAATTGAGGCATCTCAGGAAACAGTATAGA
GTTGGTACAGTTAGAATGANANAAGCCTGGGGAAAGAAACCAAGAGTGANAATGCGTG
GCTATTTTGACTTAGCTGGAGCAACCCTCTCATAACAGGCTGGGAAGTGGACCCGCGTTA
ATTAACGCGGGGGAAATTGATGAACAAACAAAGGTCATAGTAAAAGACAGACTTTTGGGG
ATAAAACAGAACTCCAAGTACTGTATCAACAAATGCAAGTNCACCACAATCAGN

Sequence 5626

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAGAATCAACAGAC
TCTATATTTGATCACAAAGCAAAAGTTTAAAGTGTATTACTTAAAATTTTAAGACAAAATC
TGGAATAATTATACTAACACAAATTTTGAGGTAGAGGAAGAGAATTCTAGAGATAGGGG
AGATAAAATTTTCATCTTTGATAATGAGTAGACAAAACACTACCTTTAACAAGGGAANA
ATTTAAAAAATTTAGAGAAGAGGAAATCATAAGNGGNTTTTAAAATTTATT

Sequence 5627

TTTTTTTTTTTTTTTTTTTTTTTTTTGAANAATCAACAGACTCTATATTTGATCACAA
AGCAAAAGTTTAAAGTGTATTACTTAAAATTTTAAGACAAAATCTGGAATAATTATACTA
ACACAAATTTTGAGGTAGAGGAAGAGAATTCTANANATAGGTGANATAAAATTTTCATCT
TTGATAATGAGTAGACAAAACACTACCTTTAACAAGTGAAGA

Sequence 5628

NGGGGGGGGGGGGGTAAGNTAAGNNNGNCCNACTTTTTTTTTTTTTTTTTTTTTTTGGGA
GGTTTCTATTTTTATTCAACTACCAAGCCAAACAGCCACAATTAATGGCAACATTTTCAGC
CAACTCAAGNACCAGCTTTTTTCTTACCCCCCATTTGGNAGAAACCGANTCAATTTAAAAA
AAAACA

Sequence 5629

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTT
TTTTGAGAGACAAACATGGGCCACATTTTAAAGACAAACATGGACCACAACCATGCTGAG
AGAACTTANAGNGAAGTTTACATGGCTATCTTTCTTAGTATTAGAAATTTTACCTGATAA
ACATCAAACATACGACCAANCATAGCATATAAAGCAGCTCTACAGATATTTTTCCTACTG
CCCAAAATATCATATAATGCNCATGTAGGTCACATGTGAGTAGGCAAGANATTCTGGAAC
ACAGAAGCAAGACAACAGGATCACAGCAATTTTCAGTATGCTCTGCTTGNTAT

Sequence 5630

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTT
NTTTTTTTTTTAAANATTNAACTCTGATTTATTGGGGGGGTAAAGCATGTTATAGTGTTCCA
GCTTCACTTTTTTTCTGAATGGCTATCCAGTTGTCCCAAGATCATTTGTTGAATAATTCA
TTTTCCCCCATTTGAAATGACCACTTTTTCNTTNTTACTAAAGTCCCAAGTCTNTTAGTT
NTAAACAGTAATAAACCTTGAAACAGGCATTTTCCTAAAATACATTTTGTTTAAGTAA
GACAGTTTTCCCCCGCGTTAATTAATTCTAGAAGTACT

Sequence 5631

TTTTTTTTTTTTTTTTTTTTTTTTTTGCAAANAACCGTGCCTTTTATTGGGCACTGGCTCT
CTTTGAGCCCGGAGTCCCGCCCCCGCCTCTCTCGAANAACCTGGCCAGACTTTTTCGAAA
CGCCTTGAAGGGTANAATTAGCAGCGAGCTCTTGAAACTGCCTCTGGAGATGGAACCTCAG
CGGAATTCTCGAAAAGAAGAGGGACATTAAAAAGACGGGTGCATGCACTGATTTCCAAGC
GCAGTTTGTCCATGTTAGTCTTGATACATGCTTGACTCCAGTCAGCCACCGTAGGCCCCGC
CTTAATTAATTCTANAAGTACT

Sequence 5632

Table 1

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CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGACCAGAGAGGCCCC
 AAAC TAGCAGCCTGTCCTCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTGTCCTTC
 TATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTAAAATTTTATTGTTATTTATTTAT
 TCTANAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACCTCCTGGCCTCAAGCAA
 TCCTCCTGCAGCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGTCTGGTC
 AGACAGGCATAGTTTACAAATATGTGGGTGGATAAATGCTGTCCAGTCTTACTTCATCA
 CTTCTATCAATTGAATGCTTTTGGTTGGAAATAACAGAAAATCCAATAAAAGTGACTTA
 AACAAAGGAAATGTTATTATCTCATGTACCAGGAATCTGAGAGGTAGACTGGTTCAAGGG
 TGGATTAATTAATTCTAGAAGTACTCTCGAGGGGGGGCCCCGTA

Sequence 5633

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTGAGGAGTNTANAAATGACTAATTTTTTTCATTGGNGAGTAANANGCTACAAAG
 ACTCGTAGAATCATATACTTTTGGACCTGGAAAGTAGCTTAAGGACCATCTGATTAAAAT
 TTTAAGNTTTATTGNTGAAAAAAATTAAGCNCNAAGAAAAGGGCTGTNACTTGGNCCNA
 AGATCNCCANAAAGTNATTAACCTATTTGAAGCTTGANNGAAAACAGCCCAGATTCTCTN
 GCTCAAAATTTTCAGCTGAAACTACATTTGTANAATAAAAATAACTCACCATAACATTA
 CAACAGAATA

Sequence 5634

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
 CCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
 CATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAACATTTAAATTGTGCTCAT
 AGTGAAACTGANAGGTGACCACTCTTAATATTTTGNNGCATAAGCATTCCAGTCTTTTAT
 CTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
 TTTTTTGTGACCACATAGTATCCTATTATATTGATAATACCATAATTTACCTAACCCATT
 TTTATATATTTGGATTTTTTCCAATTCNTCATTAT

Sequence 5635

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATAACCCAAAGGCTCTATTTC
 AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAN
 AAAATGCAGAAAATTTCAAGAAAACATTTAAATTGNGCTCATAGTGAACTGAGAGGTG
 ACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
 ATAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
 GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
 TTTCCAATTCATCATTATTATGAATAATGGNGTATCTCAGTGGTTNTTANTTTGCACTGC
 ATTTCTTATGAAAGTATTGAGTAAAG

Sequence 5636

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGACCAGAGAGGCCCCAAACTAGCAGCCTGTCC
 TCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTGTCCTTCTATGGGCCTAGTTTAGG
 TCTGAGAGGCATAGTTTAAAATTTTATTGTTATTTATTTATTCTAGANATAAGGTCTT
 GCTNTGTTTCCCAGGCTGGTCTTGAACCTCCTGGCCTNAAGCAATCCTCCTGCAGNAAGCC
 TCCCAAAGNGCTGGGATTACAGGCATGAGCCACCACGTCTGGTTANACAGGCATAGTTT
 ACAAATATGNGGGNGGATAAATGCTGTCCAGNCTTACTTNATCACTTCTATCAATTGAAT
 GCTTTTGGTTGGAAATAACAGAAAATCCAATAAAAGTGACTTAAACAAAGGGA

Sequence 5637

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATAACCCAAAGGCTCTATTTC
 AGTANAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTANAGACCTTAN
 AAAATGCAGAAAATTTCAAGAAAACATTTAAATTGTGCTCATAGTGAACTGANAGGTG
 ACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATNTTTCTCAAAGTTTCAC
 ATAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
 GNATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
 TTTCCAATTCATCATTATTA

Sequence 5638

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGATTACGTAAAT
 AAATCTANAAATGAGTACTACNCTACATAAAGAGTAGGTTTAGCAATTTTATTTGNGTTG
 CCAAATAATCTCCCTTTACTTTACATATCCTTTCAAAGTAAAATAAAATAATTTATTTA
 TAACCAAAAATTTATTTTTTAATACCAATNAGGAAAAAATTCAAATTCACAGTTTCT
 AAGGTTACAAACCTTCAGGCTGAGTATCAGATATTAAAAGANAAATGCCATCATCCTTT
 CTTTCGTTTTCTTTATTGGGCNCAGNCTGCTTTCANAAATTGTCATCTACTGNCTTACTT

Table 1

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CGNTGGGAGCC

Sequence 5639

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAACATTTAAATTGNGCTCAT
AGTGAAACTGANAGGNGACCACTCTTAATATTTTGNNGCATAAGCATTCCAGTCTTTTAT
CTTTCTCAAAGTTTCACATAAACTTTNTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
TTTTTTGTGACCACATAGNATCCTATTATATTGATAATACCATAATTTACCTAACCCATT
TTTATATATTTGGATTTTTTCCAATTCATCATTATTATGAATAATGGNGTATCTCAGNGG
TTATTACTTTGCACTGCATTTCTTATGAAAGTATTGAGTAAAAGGAAGTAAAGC

Sequence 5640

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNG
GGACCAAAAAGGCCCAAACCTAGCANCCTGTCTCCTCAGNAGCCCCAGCATCCCTTNAT
CATTTNGTTGCCCTTNTATGGGCCTANNTTAGGTCTGANAGGCATAGTTTNAAAATTTTT
ATTGGNATTCATTNATTCTAAANATAAAGGNCTTGCTATGTTTCCCANGCTGGTNTTNAA
CTCCTGGCCTNAAGCAATCCTNNTGCANCANCTCCNAAAGNGCTGGGATTACAGGCATG
AGCCACCACGTTTGGTCANANAGGCNTNTTCTACAAATATGTGGGTGGATAAATGCTGC
CCAGNCTNACTTCATCACTTCTATAAATGGGAANGCTTTTGGTT

Sequence 5641

NCCGCGGCGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNACTNGAATTGTTGTTATA
GTGCTTCCGTTATTTATTTTTATTTTTTTTTTATTATACTTTAAGTTTATAGGGTACATGTGC
ACAACGTGCAGGTTTGCTACATATGTATACATGTGCCATGTTGGNGTGCTGCNCTCATTA
ACTCGTCATTTATATTAGGTATATATACCNTGTTCAATTGTACCCTTATCGACTTTGCAGC
ATGCTTATCCATCTAACTATTCATCTTTATTNGCCTTCGTTTTTTGAGTTCCTTATTCA
TCCTAAAACAAAATATAATGCCTGACTCATAGTCAGACTTCACAGTATTTTTAAANGAAT
TACATTGCNTTGGGGGAAATATAAATAGTAATGTCTTTTATAGAGGAAGTCTAAAANGA
AATTCTTGGGNGAATTGATAATCAAACATTTT

Sequence 5642

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTCTAGAGACCTTANAAAATGCAGAAAATTTCAAGAAAACATTTAAATTGTGCTCAT
AGTGAAACTGGAGAGGTGACCACTCTTAATATTTTGNNGCATAAGCATTCCAGTCTTTTA
TCTTTCTCAAAGTTTCACATAAACTTTNTCAAAGGCCATTAAATACTTTTCCATAGCCTG
ATTTTTTTGTGACCACATAGTATCCTATTATATTGATAATACCATAATTTACCTAACCCAT
TTTTATATATTTGGATTTTTTCCAATTCATCATTATTATGAATAATGGTGTATCTCAGTG
GTTATTACTTTGCAC

Sequence 5643

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTNGAGGAGTAGAGAAATGACTAATTTTTTTTCATTGGTGAGTAATATGCTACAAA
GACTCGTANAATCATATACTTTTGGACCTGGAAAGTAGCTTAAGGACCATCTGATTAAAA
TTTTAAGTTTTATTGATGAANAAATTAAGCTCAAGAAAGGCTGTTACTTGTTCAAGATCA
CAGAAGTNTTAATATTGAAGCTTGANAAAACAGCCAGTTCTNTGCTCAAATTTTCAGCTG
AACTACATTGNATAATAAAATAACTCAACATAACATTNCAACAGAATAGTTTAAACTCT
TTCTAGTCAGNGGCAACTTAGGGTAGGGAAGATCCAAAGGGATTTTTAAACAAGTTTGTT
GAAATTNTNTAAGAAAATTA

Sequence 5644

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATANTTG
CATTCTAGAGACCTTANAAAATGCAGAAAATTTCAAGAAAACATTTAAATTGTGCTCAT
AGTGAAACTGAGAGGTGACCACTCTTAATATTTTGTGGCATAAGCATTNCAGTCTTTTAT
NTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
TTTTTTGTGACCACATAGTATCCTATTATATTGANAATACCATAATTTACCTAACCCATT
TTTATATATTTGGATTTTTTCCAATTCATCATTATTATTATGA

Sequence 5645

TTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGNNAATTTATTGGTNTGGNGATTATAGCAGNGACNTAGTTGCATTGNTANAGACCTTA
NAAAANGCANGAAANNTTCANGAAAACATTNAAATTGTGCTCATAGNGAACTGAAAGG

Table 1

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TGACCACTCTTAATATTTTGGGGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTN
CACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGNCNGANTTTTGTGNGACCAC
ATAGTATCCTATTATATTGATAATACCATAATTNACCTAACCCATNTTTATATATTNGGA
TTT

Sequence 5646

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGGGACATAGTTG
CNTTCTAGAGACCNTANAAAATGCANAAAATNTCAAGAAAAACATTTAAATTGGGCTCAT
AGTGAAACTGAGAGGNGACCACTCTTAATATTTTGNNGGCATAAGCATTCCAGNCTTTTAT
CTTTCTCAAAGTTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCNGA
TTTTTTGTGACCACATAGTATCCTATNATATTGATAATACCATAATTTACCTAACCCATT
TTTATATATTTGGA

Sequence 5647

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTNGAAGAATCAACAGACTCTATATTTGATCACAAAGCAAAGTTTAAGT
GTATTACTTAAAATTTTAAGACAAAATCTGGAATAATTATACTAACACAAATTTTGAGG
TAGAGGAAGAGAATTCTAGAGATAGGTGAGATAAAATTTTCATCTTTGATAATGAGTAGA
CAAAANCNCTACCTTTAACAAGNGAAGAATTTAAAAAATTTAGAGAAGAGGAAATCATAA
GNGGTTTTTAAAATTTATTATACATATCGNGGTAAAGATAATCCAACAGAAAATGAGATT
TGAACAGACACTTCACAGGAGATAGACAAATGTCTCAA

Sequence 5648

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAN
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
TTTCCAATTCATCATTATTATGAATAATGGTGTATCTCAGTGGTTATTACTTTGCACTGC
ATTTCTTATGAAAGTATTGAGTAAAAGGAAGTAAAGCCCTCTCAGAGTGTTTTGTAGGCT
GTCACATTTCACTCCATAATGTCCTAGTGTGTTGTTGCCACCAGTGATATATGAAGGTACC
CACTGAAATGTCACACCTTTTTGGTTTTCTTTTTTAAAATAAAAAATAAAAAAGACATTT
AACCATAT

Sequence 5649

NCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTCTTTTCTGTATTTTTTTCNTTTTTAAATCA
ACTAAAACAATTTGATGCTTAAAATAAAAGACAGGAAATATTTCTGATGAGACTTTAGT
CGAGAATATANGATNTATTNCTGATCCCGNGGGNGCCGGGGTAGNATCAAGNGGGCCGT
NGNGGTAGTGANAAANNGAATTGTTGCCCCACCAAGTTGGGGTTTCCGCCGAAGGGGTAT
CCCCGTTTTTCTTCAAGACCTTCNAGGGGAAGGGNGNAGNCNCCTTGNNGCTTNGCTCC
TTGGNAACCCCCCGTGGGCCTTANGNGGCACNCCCCANGTANGTCTTGGGGGNGCNTTC
NCCAACNTANGNGNCCCNTNGNACNCCANNGTGGGTCCCCAGGGGTGNTAANGTAANAGT
AANCTGNGNGANNTGNTANTGNAAGTGGCAAATNGTAAAGNAAANGGGGGCTGGGGGGNG
GCCTTTGGGNCCGGGGTCTTTGNGNGGGGGGCCCTTTTNGGTTAAAATTTT

Sequence 5650

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTGGAGGAGTAGANAAATGACTAATTTTTTTCATTGGNGAGTAATATGCTAC
AAAGACTCGTANAATCATATACTTTTGGACCTGGAAAGTAGCTTAAGGACCATNTGATTA
AAATTTTAAGTTTTTATTGATGAANAAATTAAGCTCAANAAAGGCTGTTACTTGTCCAAGA
TCACAGAAGTNTTAAC TATTGAAGCTTGAAAAACAGCCAGTTNTNTGCTCAAATTTTCAG
CTGAAACTACATTGTATAATAAAATAACTCAACATAACATTACAACAGAATAGTTTAAAC
TNTTNTAGTCAGGNGGCAACTTAGGGGTAGGGAAGAATCCAAAGGGGATTTTTT

Sequence 5651

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATATGCCACCCATT
TCAGGTTGAGCCACGGATAAGGAGGGCTTAGCTCATGTCTCCTGTGGGAATTGAGGCATN
TCAGGAAACAGTATAGAGTTGGTNCAGTTAGAATGAGAAGAAGCCTGGGGAAAGAAACCA
AGAGTGAGAAATGCGTGGCTATTTTGACTTAGCTGGAGCAACCCTNTCATAACAGGCTGG
GAAGTGGAACCCGCGTTAATTAACGCGGGGGAAATTGATGAACAAACAAAGGTCATAGTAA
AAGACAGACTTTTGGGGATAAAAACAGAAA

Table 1

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Sequence 5652

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTGGGANG
CNCAACCTNTAATACCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGATTATAG
CAGNGACATAGTTGCATTCTAGAGACCTTANAAAATGCNGAAAATTTCAAGAAAAACATT
TAAATTGNGCTCATAGTGAAACTGAGAGGNGACCACTCTTAATATTTTGGGGCATAAGCA
TTCCAGTCTTTTATCTTTCTCAAAGNNTCACATAAACTTTCTCAAAGGCCATTAAATACT
TTTCCATAGCCTGATTTTTTNGGACCACATAGTATCCTATTATATTGATAATACCCGTGG
TTTACCCTAACCCATTTTTTATANATNTGGGAATTTTTTGCCAATTTTCATCATTATTATG
GAAATAAATGGG

Sequence 5653

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACCAGAGAGGCCCC
AAACTAGCAGCCTGTCTCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTTGCCCTTC
TATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTAAATTTTATTGNTATTTATTAT
TCTAGAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACCTCGGCCTCAAGCAA
TCCTCCTGCAGCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGTNTGGTC
AGACAGGCATAGTTTACAAATATGTGGGTGGATAAATGCTGTCCAAGTCTTACTTCATC
ACTTCTATCAATTGAATGCTTTTGGTTGGAAATAACAGAAAATCCAACATAAAGTGACTT
AAAC

Sequence 5654

GTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTNNNGGAGAGACAAACNTGGGCCACNT
TTTTAAGACAAACATGGACCACAACCATGCTGAGAGAACTTANAGTGAAGTTTACATGGC
TATCTTTCTTAGTATTAGAAATTTTACCTGATAAACATCAAACATACGACCAACATAGCA
TATAAAGCAGCTCTACAGATATTTTCCCTACTGCCCAAATATCATATAATGCACATGTAG
GTCACATGTGAGTAGGCAAGAGATTCTGGAACACAGAAGCAAGACAACAGGATCACAGCA
ATTTTCAGTATGCTCTGCTTGTTATAGGAAATCCCCAGAACATTCTCCAATTACTGAACAA
AAAAAGCAATAAACTCAGATTNGTCTGCCTGGGGAGAAATAAGCACAATTTGAAAGNGA
ATAGCAAAACAAAGCTNTCTGGTGAAAAGACATTCTTACTTGGAAGGAGTTAAATTTTG
CCCC

Sequence 5655

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTNTNNNTTTACATTTAACTCTGAT
TTATTGTGGGGTAAAGCATGTTATAGTGTTCAGCTTCACTTTTTTTCTGAATGGCTATC
CAGTTGTCCCAAGATCATTTGTGAATAATTCATTTTCCCCCATTTGAAATGACACCTTTT
CGTATACTAAAGTCCCAAGTCTCTTAGTTATAAAACAGTAATAAACCTTGAAACAGGCA
TTTTTCCTAAATACATTTTGTTTAAGTAAGACAGTTTTCCCCCGCGTTAATTAATTCTAG
AAGTACT

Sequence 5656

CGCTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGGAAGATGAAGAAATTTCACTCAAGTATT
TTGTTACTTTAAGATTCAATGCTGGACACTAGACCAGCTATAACATTTTCAGATAGAGTG
ACTTCATGCGTGAAATGATCACATACAATGAAGAGGTTTTTAAAAAATACAGATGACATAA
CTTGTTTCAGTTGAAGAAAATTAAAATACTGATATAAACTAAATCATTCTCCTCTTCATTT
TAGGGGGATTTTTTCTCTGCAATTGTACTGATTTATGACTAGAAAGCTGAAGACTGATTTG
AGCCTCTTTAGCAATACTCTATTTACCATTTATCTTCCAAGAATTATGGCTATTTTAT
TTCTTCCAATGAAGCTGGAAAATTATAATATGCCAGCAGATCAGTAGAAAATGTNAAAAA
TATTAGTAGTTACCCTTTTTAGATCCAACCTTACCTGTAGTGGAATAGCCAGCAATGCAT
TCTCTATTTGGAGGGCCAAAACATAAAAACCCTGGCTTCATAAACATAGAGGTATTTAAA
AAATCTCANAAGTTTAATGNGGTANACATTTGCCATAANAATTTCTGGGAGGTCTCAACAC
TCANGTCTNGATTTTTTAAAAAACCNAAAAAAATTTT

YS

Sequence 5657

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTANANGGAGTCTTACTCCGNCACCCAGGCTGGAGTGNGGNGGTGTNATCTCAG
CTCACAACAACCTGACCTCAGGTGATTCACCCNCCTTTGTCTCCCAAAGTGCTGGGATTA
CAGGCGTGAGCCACTGCGCCCGGCGTCTTTGAATTTTTTAACTGAANTTTAATTGCCTT
TGAGTTTGATCATTCACTATTTGCCATTTGTATTTCTTTTGTTAATTATGATGCTCANGC
TCTAATTTTATAAGTGGAATTTAATGGATTAACATATAACACCCACTATCACCTGCCT
NAATTAATTCTANAGTACTCTTNAGGGGGGGCCCC

Sequence 5658

Table 1

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ACTTCTTAGGGCGAATTGGAGCTNNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGGGGGATTCCATTTNTATGAAATGTCCAGAACAGGGAAAACCTATTTTAG
ACAACAGAGACNCAAAGTCGATCAGCAGTTGCCAGGGGAGGAGGAAGACGGGAGGGGAAA
TGATTGCTTCACGGGGTGATGACAGAATGTTCCANAACGTGACAGAGGNGGNGCCTACNC
AACTTTCTGGATGTACTAAATGCCGCTGATTGTTCACTTTCAAGNGATTGATTTTTAGGT
TATTTGAATTTTCATCTCAATTA AAAAACCCAAACACGCAAACCTGNTCCCGCCAGCTNAGC
CCCGAGCAGACGGCGCAGCCCCGTGGAGGATGCTGAGCCACCCAGGCTTNTCCCGCCTTA
ATTAATTCTA

Sequence 5659

GAGCCACGGANAAGGNGGGCTNAGCNNANGNCTCCGGGGGGAANNAGGCATCCCAGGAA
ACAGNANAGAGNNGGNACAGNNAGAANGAGAAGAAGCCNGGGGAAAGAAACCAAGAGGGA
GAAANGCGGGGCNATTTNGACNAAGCTGGAGCAACCCTCTCAAAACAGGNNGGGAAGGGG
ACCCGCGNAAAANAACGCGGGGGAAATNGANGAACAAACAAAGGNCAAAGNAAAAGACAG
ACTTTGGGGGAAA

Sequence 5660

AATTGNAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTGGNCNAAA
AAAAAANTTAAAAGGAAAAAANCNAANAAAAATTNNGNANGGGAAAAACCNAACAAGGG
GGCCNCNCAAAAAAANCTNANTTNGGNAGNNAAAAANCCCCNAAGANNCNCCCAGGNA
ANANCTNNANGGNCNCCNCNAAANTTAAANAAGGGNCCCCAGGAAAAAAAAAATNCCAAN
ANCCCCNNGNNAAAAAATNNAAAAAANCCCNCCNNGGGGGGGCCCGANCCCAANTTNTG
NCCCCCTTAANGGNGGGGAAAANGCCCCCNNGGNCNAAAAANGGNAAAGCTNNNCCCCGG
GNAAAAAAA

Sequence 5661

GGCCGCTTTTTTTTTTTTTTTTTTTTTTTGTTTTNANAAAGGGGCNTNAAGAAANATAATTCC
TTGGAAGGAAANATCATTTTATCNAAGCAACAGNAACATCTGAAANACCCTTTTTTCCCC
ATGGAGCNACATCTCNGTNCCAGATNATNAAGGGTAAAACCAGCAATCCAATCATTTTTN
ANCCTGGA AAACAAAGNCTAATCAAANATTTCCCTGGGGGANANAATTGGAANGGAANAA
TTTCATAAACATTAAAGCNCCCCGNGTNAATAAATTCAANAAGTACNCTCGAGGGGGGGC
CCG

Sequence 5662

CTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTTTGGAGACGGGGTTTTGCTGTGTTGGCCGGGCTGGTCTCCAGCTCCTAACCGNGAGTG
ATCCGCCAGCCTCGGCCTNCCGAGGNGCCGGNATTGNAGACNGACNATCGTTCACCTANT
GCTCAATGGTGCCAGGCTGGAGTGCANTGGCNATGATCTTGGNCTCGCTACAACCTTGC
ACCTTCAATNCGANCTGCCTTGCCCCCCCCAAAGTGCCGA

Sequence 5663

AGTACTTCTAGAATTAATTAACGCGGGTTNTCATACANNAAGTNCTCAAATTTTTCTNTC
CATCTNTCCACCTGCTTTTNGAATATTGGNGCATTTTNCAATAAGNTCTTCNCTTCATGG
TCCAAGATAAACGTAAACAATTNCCAAGGTTNCATGCATCCTCATCTTNACCCACACTT
TAAAACTATCATTTCTAGTNCACCCCTGANATTTGATCTGATTGGACTAGCGTTGATCAA
GTGTNCACCCCTTGAACCATCTCTGTGGCCAGGAAAAAGGAACGATANGCTAGGTCATA
TACTCCA

Sequence 5664

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTGGGGCCCGGGCTGGANTNNNNTGNAANNAATNTGACTNACTGCAACCT
GCACCNCCCATNTNCAANCTNNTANGAAGCCTCACCTCCTGANTNNCTGGNATTACAAG
CACCCGCGTTAATTAATTCTAGAAGTACT

Sequence 5665

TCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCAC
CTACAAAACGAAAGTGCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGC
TCANTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAGAGATGAAGGAACTGAAGCT
CAGGGAGGCTAGGAAACTTATCCAAAGCCTNTTAANAGGCTATGTTAGTCANACTGGGCT
AACAGCTGTAACAACCCCANAAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATT
GCCATAACAATTCAGGGTGTATGTTTGGCAGGTAAGTCTACACAGTGATTCAGGGACCCA
GGCTCCTTCCCTNTGGTGGCTTTTTNTCCCTCTAGTGCTGGGAGCTCTCCATGCAAATGG
TGGATGGAAAAAGAAA

Table 1

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Sequence 5666

NNCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATTCTGTTCCCTTCTGATAATACAGT
ATAAGAATATAACAAATAGATATTTAATTCCTTAAATATGTGNGGATATTTTCTGAAT
GGNCTAAGCATNTCTTACTGNGAAGTCATTTCTGCAAATGAACAACTCATTCTATTATGA
AGTAATTCCTTACTAGTGTCTCTCTGAAAATGACTTTTTTTTTTTTANCTTTAATCTCTTA
CCTCCAAATTCCAAAGGNNCATNTTACAGCTCTTATGAATGTCCTGAAGCATGCTAGGGG
AGTTATTTTGCTGCCTTAACCCTTGGGATTAGAANCTTTGTATAGTANTATATTTAATGA
ATGTTTATAGGGCTTATGATNAACTTGGTAAATAAGCTNTAAAAATGAA

Sequence 5667

CTAAAGGGANTTNAAGCTGGGGTNCCGGGCCCCCCTCGAGAGTACTTCTAGAATTAATT
AAGGCGGGGNCAGGACTGTACTTTTGGTAGCGGTGCGGGGCGCCCGCGGACTTTAGC
CCTGCATAGAGATGGGTAGACCCTAATTTGGAACAGCCATTGACTGGGCACAGGCCAGCA
CTTTGGGAGGCCGAGAGGCCGAGGCAGGAGGATCGCTTGAGGCCAGGAGTGCCAGACTGC
GAGACTAGCCTGGGTAACATAGTGAGACCCTCTCTTCAAAAAAAAAAAAAAAAAAAAAA
AGCCTGTCACGGTGGCCTGCGCCTGTACCCAGCTACTCGAGAAGGATCGCCTGAGCCCA
GTGAAGCTGCAGCGAGCTGTGAGGATGCCACCGCACTCCGGCCTGGGCTAAAA

Sequence 5668

CGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTNNNGNNANGCCCAACCTNTNATANCCAAA
GGCTCTATTTTCAAGTAGAANTTATTGGTTTGTGATTATAGCAGNGACATAGTTGCATTCT
AGAGACCTTANAAAATGCAGAAAATTTCAAGAAAACATTTAAATTGNGCTCATAGTGAA
ACTGAGAGGNGACCACTCTTAATATTTTGNNGCANAAGCATTCAGTCTTTTATCTTTCT
CAAAGTTTCACATAAACTTTCTCAAAGGCC

Sequence 5669

TTAGGGCGAATTGNAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTT
TTTTGANATGGAGTTTNACTCTTGTTTGCCAGGCTAGAGTGCAATGGCAGGATCTCAGC
TCACTGCAACCTCTGCCTCCCGGGTTCAAGTGANTCTCCTGNNTTATCCTCCCGNGGTAG
CTGGNATTACAGGCNCCCGCCTTAATTAATTCTAAAAGNACTN

Sequence 5670

TAATTAACGCGGGGCACTTGATGAAGAAGACGCNGCCATCCCGGCACACCCCGTAGGACC
AATGCTCAGGCCAAAGGTGTCCAACTATACAGACCCACAGAATCTAACANCAGATGTCT
CAATATTCCTCGTCCTANAACCTCTCAGAGGATCCANAACCTACAGCNCGGTCCCTCGCTGGG
CTGTTCTTGTCCATGTGCCTGGTCATGGTGTGCGGGAACCTGCTCATCATCCTGGCCGT
CAGCCCTTGACTCCNANCTTTACACCCCCCATGTACTTCTTCTTCTCAACCTTGTCCT
TGCCTGACCATGGTTTTCAACCTCCAACCATGGTTCCCNANGANTGATTTGGTGGGACA
TT

Sequence 5671

CGGCGAATNTTCTCCCCGCGCCGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT
NGAGGAAGGTTCTTACAAAACGAAAGTGCTAGGGCTTACAAAAGTCATATGTAGCCTTT
ACAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGG
AAACTGAANCTCAGGGAGGCTAGGAACTTATCCAAAGCCTNTTAANAGGCTATGTTAGT
CANACTGGGCTAACAGCTGTAACAACCCCAAAATTTAAATGGCTTAACACATTAGGAGTT
TATTTGTTATTGCCATAACAATTCAGGGNGTATGTTTGGCAGGTAGTCTACACAGNGATT
CAGGGGACCCAGGCTCCTTCCCTCTGGGGGCTTTTTCTC

Sequence 5672

AGTACTTCTAGAATTAATTAACGCGGGCATTGTGTGCAGAAACCTGNACTGGAATCTAA
CACTGNGAGTACTCCCCAGGATCCGTGTTCTCTTTAGCCCAGGCATGCAGTTACATT
ACATTTTCCAACCTTCTTGCAGTTAGCTACGATCACGTGACTGCATTCTGGCCAGTGGA
ATGTGTGTGGAAGTGATGTGGGCCAATTCAGGCCTGGCCTATAAAAATCCCCCACTTTT
TGTTCTCTTTCTCCATCCACCATCTGCATGGAGAGCTCCAGCACTANAGGGAGAAAAAG
CCACCANAGGGAAGGAGCCTGGGTCCCT

Sequence 5673

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTNAACGGGTGTGTGGCTGGGGGTGCAANAGGCTGTGATGTTGCTGGGCA
GTGTGGGTCTGGGCTAGGGGTCTNTTGCCAGCTNTGACACATCCACCCCTAGGCGGAGGC
CCACAGCCGGAACCATGGGGTCAGGCTCCACCGGGGAGGCTGATGGATGCCCTGGCTCTT
CCTGGGCCCAACTCGACCCTGCTTGCTCCCAAGGGGCTTCTCACCTCTGTGCTAGGGGTC
CACAACACTGGCTTTCTGCTCCCGATACTGCCTGGCTGCTTGGATGGTGTCTTCTGGAG

Table 1

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GAAGTCAAAAAATCCTCTGCACCAAAAAAATCACCGGTCTTTCAGGTTGGCAAACAAGGA
AATGTCATTTTGCTTTT

Sequence 5674

TAGGGCGAATTGGATTTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTGANATGGAGTTTCGCTCTGTTGCCAGGCTGGAATGCAGTAGGAGCGATCTCGGC
TTACTGCAACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTTCCAAGTAGC
TGGGATTACAGGCGTGTACCACCACAGCTGGTTAATTTTTTGTATTTTATAGTANAGACTG
GGGTTTCACCATNTTGGCCANGCTNGGTCTCGAACTCCTGACCTCAAGTGATTTCCCCGC
CTTGGCCTCCCAAAGTGCTGGGGATTACACGCATTGAGCCACCACGCCCTGCCAGAGGCT
CTGAGAATTCTTATAGCNAAAGTTAATTTTATTGACATAAGCTTATAACTAATGGAGGTC
AAAACCTACAAAATTAAAAA

Sequence 5675

TAGGGCGAATTGGAGNTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTGTGTTTCAAT
AAAACCTTATTACAAAAAAGAGGTAGTGGGCTGGATTGGCCAACCTCTGATGAATAGCAT
TTCTTTATAAATTCTGAACATGAGTACTTTAAAAAAATGTAGCAAATATCTTCTACTATT
ATGTGGTTTCATCTTTTCCACCTAGTGTATCATATTTTGTATGAACAGAATTTCTCTGTTT
GATTTTTTTTAAATAGTAAACAAGATTTGCTGATCCTTAATACCTGCCTGGGTTTATTTC
CCATCTTGTCTTCAGTATGATCTAGGCCTTCTGGAAGTTGAATGGGGGAGCGTCTAACAA
ATAGCTACCTAATACCTAGACAGATGACATCATCTCCGTGTGCAGGTAGGGACATTAGAT
GGTTTCTCTAGG

Sequence 5676

AGTACTTCTAGAATTAATTAACGCGGGTCCAGGTCTCTGAGTCCATTCTTTGGGTTTGA
CAGGTAGGTTTGTCTCACAATACCAGGTATAATACCAGTAGAATGTTTCATATAATTT
ACAAGTTTCATTATAAAATGTACTTGAAATTGCAAAGAGCCACAAAAAAACCCAGACAA
TATTGATGAAGAAAAGACGAAGTCAGAGGACCTATACTACAAGATATCAATATAAATTAT
AAAGGTACCATAATTAAACTGTGGAAGTGGAGTAAACATGGACAAGTAGACCAATGTAG
TTAAAAACAATTCTGAAAAAGACCCACGCATATATAGATGCTTGATTTATTACCCATGTT
GCTACCTATAAACAAGGGGAAAACCTGGTT

Sequence 5677

AGTACTTCTAGAATTAATTAAGGCGGGCGCCTGTAATCTCAGCTACTTTGGAGGCCGAGG
CAGGAGAATTGCTAGAACCAGGAGGCAGAGGTTGCAGTGAGCTGAGATCGCGCCACTGC
ACTCCAGCCTGGGAGACAGAATGAGACTCCATCTCCAAAAAAAAGAAAGAAAGAAAGA
AAGAAAGAAAGAGGCTCTATTTTGATACTGGGAGCCTAACTGAATGATTCTGGAGAAA
TTCACAGATGGGGCTGAGGCTCACCTTCATGACAGCTGTATCAAAGGCCNAAATTTCTAA
GGCTCAGGAAATCACTACAATAAGCCTANCAACAGCAATGTGATACCTNTCCAAGCATTT
TGCAACCTTAACAT

Sequence 5678

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTGGGCTGAATCAGGAAACATTTATNCTTCCCCATAAATTTAAATGGAGGTGAACTG
NGAATATGAAGCAAAGAACATTTATCTCACAAGGTAAGTCTNAAATTTTAAATANCTGA
AACCANANACATTGTACAACACTTACNGCATTACACACAACTATTTTCAAATAGGNTT
TTGACCCCTAAAAATGAAATTCTTAGCGACAAGCTTTAGATATGAACTTAGCCCAGCA
GGGTATTCATTTGTACAAAAAGCAACTACCGACAAATAGTTTTTCCCTCTCCCCGACA
CAAAAACCTGAAATTACAGACTTTTAAAGCAGAAAAAATTTTCTCCAAAT

Sequence 5679

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTCTTTTNTNACAAAAGTTTATTCTTAAANGTNCAANAGCTNCAAAACAAC
NCTTAATTCCAGCTATACNTGGNAAAANATGTTATGGCAGGGAATAAGAGAGGTTTNAAT
NCANAATGNAANTNNAAGGGGNCACCAATTATTNTNAGGGCNCANNGGAAANAGCTTTAC
TNTTTTGCCANNATTTTTTTTAAATTCACCTGNGGCCAAGGGCCCCTTCCCCCGCCTNAA
TNAATANTAGAAGNACTTTNGAGGGGG

Sequence 5680

AGTACTTCTAGAATTAATTAACGCGGGGGAGGGAGGTCACGGCGTAAAGGTGCAGCTGCC
GCCACCGCCGCTTCTGCAAGGTCTCAGGGACGGGCTGCAGCCATGTCCTATTGCCGGCAN
GGAAGGGAAGGATCGAATCATATTTTGTNACCAAAGAANATCATGAACTCCAAGCAGTT
GCATAATTGGTGGCTGATGACCCCAACGATCCATACNAGGAGCATGGATTGATACTGCCA
AATGGAAACATTAACCTGGAAGTGGCCATGCCTTGGGGGGAATGGCCAGCGGTCCCTGTTG

Table 1

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GAGAACAAGTTTAAAGTCANCCCTTTT

Sequence 5681

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTGGGGCGACCTCGGAGCATAACCCAACCTCCGAGCAGTACATGCTAAGACTTTACC
AGNCAAAGCGAACTACTATACTCAATTGATCCAATACTTGACCAACGGAACAAGNTACC
CTAGGGGAAACAGCCCAATCCTATTCTAAGAGTCCATATCAACAATAG

Sequence 5682

CCCCGCGGTGGCGGCCGCTT
TTTTTTNGGGTTCTCTTTTCCCAAAAANACTTCCATTTAAAATAGNCANATGAAAGCCAA
TCACCAANAANGGANATTGACNNACATNCNTANGAAAAAGCTNCCGTACCCNTCCCACC
NCCCCAAAGGGGGNGGATTTNAGGTTTTGNTTATTTTNTTTTAAACNAANGGNNAANA
CNGACCCCCCGGATGACNNCCCANAGGGAAGGGATTTAAGGGCNGCCCCCATNAATTTN
TTNAGGCCNACNGCTACTTCCNCTNTTGTATCTGGATTTAAANTTAAAGGTNCCNCC
CCGNCTNTGGGGGGGCAAGCCCAACTTGGTTCCTTTNT

Sequence 5683

AGTACTTCTAGAATTAATTAACGCGGGGGTCANAAGGCTGGGCAACCATGGNGTNCTATT
TCGATGAACACGACTGCGAGCCGTGCGACCCTGAGCAGGAGACTGCGAACCATAACATGCT
GNTTGGAAGCTTCGCAAGGGGTGTCANCTTTTTTCAATNAGGGAATGNGAACTTTTTGAAAA
TTACTTTTGGGGGGGTTT

Sequence 5684

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTAGGATNGCAATAAACAGCTTTTATTCTTTTATCANANACACGATCTANCTTTT
TAGCCCAGGCCGGAGTGCGGGGGCATCCTCACAGCTCGCTG

Sequence 5685

CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGAAGGCACCT
ACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTC
AGTCATTTTCAGAAAGGTTTTTCCAATTATCATTTTAGAGATGAGGAACTGAAGCTCAG
GGAGGCTAGGAACTTATCCAAAGCCTCTTAAGAGGCTATGTTAGTCAGACTGGGCTAAC
AGCTGTAACAACCCAGAAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCC
ATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTCAGGGACCCAGGCT
CCTTCCCTCTGGTGGCTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCAAATGGTGGA
TGGAGAAAGAGAACAAAANGTGGGGGATTTTTATAGGCCAGGGCCTGGAATTGGCCACA
TCACTTCACACACATTNCACTGGCCAGAAATGCAGTCACGTGAACGNAGCTACTGCAAAGG
NAAGGTTGGAAAAT

Sequence 5686

GCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAG
GCTCTATTTTCAGTANAATTTATTGGTTTGCTGATTATAGCANCGACATAGTTGCATTCTA
GAGACCTTAGAAAATGCANAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAA
CTGAGAGGTGACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATCANTCTC
AAAGTTTCACATAAACTNTCTCAAAGGCCATTAAATACTCTNCCATANCCTGATTTTTTG

Sequence 5687

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTAGGATTGCAANAAACAGCTTTTATTCTTTTATCANAGACACGATCTAGCTT
TTTAGCCCAGGCCGGAGTGCGGNGGCATCCTCACAGCTCGCTGCAGCTTCACTGGGCTCA
GGCGANCTNTCGAGTAGCTGGGGTACA

Sequence 5688

GGAAGATGGAATCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCAC
TGGAAGCTCTGCCTCCCAGGTTTACACCATTTCTCCTGCCTCAGCCTCTCAAGCAGCTGGG
ACTACAGGCGCCAGCCGCCATGCCTGGCTAATTTTTTTTGGTATTTTTTAGTACAGATGG
GGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCACTTCA
GCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCGGCCGATTTCACCTTTC
AATGGCAATTACTATAAGACAGGAAAGTTATTTATTTTTATATATTACCTAATTTTAAG
TTACCTTATACAACCCTCATTAATAGTCTGTTAGAACTAGAATTTAAACTCTATGTGAAT
ATGGACCTTATTTAAACAATGTATCCNTAGCACCTANACAATGCCTAACCTGTCACATTA
ACTTAATAAATATTNAATTATATTTTTTNGGNNAATTNATTTTTTTTGAACAGAACTNTTGC
TTTTGCACCCAAGCTGGAATGTAATGGGTGCCNACCTGGTNACTGNAATNTCTGNCTNCC

Table 1

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AAGNTCAAGCAGTTNTTTTGTNTAACTTNCCAAANNANTGGGGATTAAAACACCCCCACC
NNCCCANNTNAATTTTGNATTTTAAGNAAAA

Sequence 5689

AACTCTGATTTATTGNGGGGTAAAGCATGTTATAGTGTTCCAGCTTCACTTTTTTTCTGA
ATGGCTATCCAGTTGTCCCAAGATCATTTGTTGAATAATTCATTTTCCCCCATTTGAAAT
GACACCTTTTCGTATACTAAAGTCCCAAGTCTNNTAGTTATAAAACAGTAATAAACCTT
GAAACAGGCATTTTCCTAAAATACATTTTGTTTAAGTAANACAGTTTCCCCCGCGTTAA
TTAATTCTAGAAGTACT

Sequence 5690

AGTACTTCTAGAATTAATTAACGCGGGTGATCAAGTACATCAAAGACAAATACCCTAATC
TCCAAGTCATTGGAGGCAATGTGGTCACTGCTGCCAGGCCAAGAACCTCATTTGATGCAG
GTGTGGATGCCCTGCGGGTTGGGGCATGGGGAAAGTGGGCTCCATCTTGCAATTACGCANG
GAAGTTGCTTGGCCCTGTGGGCCGGCCCCAAGCAACAAGCAGTTGTACAAGGTGTCAGAG
TATGCACGGCGCTTTGGTGTTCGGTCATTGCTGATGGAGGAATCCAAAATGTGGGTCAT
ATTGGCGAAAGCCTTGGCCCTTGGGGGCCTCCACAGTCATTGATTGGGCTCTCTCCTTGG
CCTGCCACACCTGAGGGCCCCCTGGGT

Sequence 5691

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTT
GAGACAGAGTCTCACTCTGTGCCCCAGGCTGGAGAGCAGTGGCGTGATCTCAGCTCACTG
CATGCTCCGCCCTCCTGGGTTACGCCATTCTCCCACTTCAGTCTCCTGAGTAGCTGGGAT
TACAGGCGTCCACCGCCACACCTGGCTAATTTTGTTTTTGTATTTTAGTAGAGACAGGG
TTTACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACTTNATGATCCGCCTGCATCAGC
CTCCCAAAGTGCTGCGATTACAGGCATGAGCCACCGTGCTCGGCCAGCTCTCTNTTAAAT
GTAGCAGCTGGAAACATTCTTTTTGTTTGATTTTNTGCTGGTCCCGCTGTTAATTAATTC
TANGAAGTACTCTCGAGGGGG

Sequence 5692

AGTACTTCTAGAATTAATTAATGGCGGGTTAACTGCTTGAGTCCAGGAATTCGAGACCAG
TCTAGTCTAGGCAACACAGCAAAACCCCATCTCTATAAAAATAAGCCAGGTATGGTGGCA
CCGTGCCTGTAATTCCCCTACTTGGGAGGCTGAGCTGAGAGGGTCGCCTGAGCCTGGGA
GGTCAAGAATGCGTAAGCCGTGATTGTACCCTGCACGCCAGCCTGGGTGAGACCCTGTC
TCAAAAAAAAAAAAAAAAAAANTAANANANANANANANGNGGCCGCCACCCGNGGTGGNGCTCC
AATTCGCCCTANTAGTGAGCCCTTNTTTACGCCGCGCTCAACTGGCCCGNTCGGTTTTCA
ACCNTCNTGACTGGGAAA

Sequence 5693

CACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTNNAANAANAANCTNCTT
TNAANACTTNGGGGGGANCCCCACAGGAAAAAAAAAACNCNGGNAAGGGGNAACCCCCCN
CCCCCGGGAGNGGCCAGGGGGAANAGGCTACCTGGGGGGAAGGAANCNCAAAGGGA
CCCNNTGCAAACTCAGGGCAAAGGGA

Sequence 5694

CGGCCGCTTTTTTTTTTTTTTTTTTTTTNTTTTTGANACACAACTTTGGCCACATTTTAA
AGACAAACATGGACCNCAACNTGCTGANANAAACNNANAGNGAAGTTTACATGGCTATCT
TTCTTAGTATTANAAATTTTACCCTGGAAAAACATCAAACATNCCGACCCAACATTANC
ANATAAAGCAGCTCTACAGANATTTNCCTACTGCCAAAATATCATATAANGCNCATGGN
GGGCACATGNGAGTAGGCAAGAGATTCTGGAACACAGGAAGCAAGACAACNGGATCACAG
CAATTTCAGTATGCTCTGCTTGGTATAGGAAATCCCCAGAACATTCTCCAATTACTGAAC
AAAAAAGCAATAAA

Sequence 5695

AGTACTTCTAGAATTAATTAACGCGGGGGNAAAAAAAAANAGANAAGAAAGCGCCTTCAAG
GCCATCTGTTTCTCGTGCTACTACCCTTTATGGAAAGACAAATCTNCTTCCCCTCCCTGT
CCTNACTTGCTTCTACATTCCCNANGGCTGAGTNCCTCTATNATCAGCGTGCCCTGCCT
CNGGGCCTTGTTGTNGCANGGCCANGTCTGACTTTCCANATTANCTTGCTNTCCTAAGCTG
CATCATTTGCTATGACTCTAATCTTNCTAACCTTTCCTNAAATCTTGCAATNTCCCTTNATG
NTGGTGAATGAAATANATNAAACGNCACACAATCACAGGGNGGGGGTTCTCNACCNCCTGG
NATTNAAANTTTCTTTCCAGGCCCCGAAAGAAAAAGGGAAG

Sequence 5696

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT

Table 1

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TTTTGAAGGAGAGAGACTTTTTCCGCTCTCTCGCTCCCTGTTAAAGCCGGGTCTAGCACA
GCTGCANACGCCACCAGCGAGAAAGAGGGAGAGGAAGACNNATAGGGGNGGGGGGAAGA
NCAAAAAGAAAAGGTAAAAAGTCTTNTAGGANAACCTTTCACATTTGCAACAAAAGACCT
AGGGGCTGGANAGAGATTCTTGGGACNCAGGGCTGGAGTGTCTATTTTCGAGCTCAGCGGC
AGGGCTCGGGCGCGAGTCGAGACCCTGCTCGCTCCTCTCGCTTCTGAAACCGACGTTTCAG
GANCGGNTTTTTTAAAAACNCAAGGCACA

Sequence 5697

NGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGACCAANANTTGTTTTATTTT
TCTNGCANCNNCTTTGTTAATTGCNCAAAATCATGTTNTGTTTTTGCCATTTAAACNTTA
TCNCNCAATCCTATTTTGAAANACAAATGTTTCATTAAAANCNGACCNNAANTAAAAATN
CNCAACCTTAATTACCTAGATTTGTCATTTAAAGGTTTAAAGAAAAAGGGAGGGGCTTT
NTTACAAGCTTTTTTCAAGNGNCACATTTTNTCCTTAAAGGGAAGGATTTCAAAANAA
AGGNG

Sequence 5698

CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTCGGGCGACANAGTTTCGCTNNTGTCNCCAGGCTGGGGTGCAATG
GCNCCATNTCGGCTNACTGCAATCTNTGTCTCCAGGCTNAAGCAATTNTNCTGCCTNAA
CCTTCCTGAAGNGGCGGGGGACTGCAGGCGCCCGCCANTACGCCCCGACCCGNGTTAATTA
ATTCTAGAAGTACTN

Sequence 5699

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGATAGGGTTTCA
CTCCTGTCACCCAGGCTGGAGTGCAGTGGCACGATCTTGGCTCACTGCAGCCTCCGTCTC
CCACACTTAAGCGATTCTCCTGTCTCAACCTCTNGTAGCTGGGACTACAGGCACATGCCA
CTACATCTGGCTAATTTTTTTTTTTTTTTTTTTTTTTTTTAGTAAAAACAGGGTTTGGCATG
TTGCCTAGGCTAGTCTCAAACCTCCTGAGCTCAAGTGATCTGCCACCTTACCCTCCCAA
GGGCTGGGATTACAGGTTTGANACACCANACCTGGCCTCAAGTGCTTTTTTGACAGGACTG
AACTTCACATCTACTCATCTAAATTTCAATCATCCTCCTACCTAGTTATTCATCCTCCTT
ACCTAGNTACTCATTCATTTGCCATNATAACTTTGGTTTTAGGGAA

Sequence 5700

NCCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNAGGANGGAATTTNACTCTGNCNTT
TNACGCTGCAGNGCAGCAGCATGATGNCGGCTTNCTGCAACCTCCACCTCTCGGGTTCAA
GTGATTCTCCTGCCTCAGCCTCCTGAGANTGGTATTATAGGCGTGCGCCACCACACCCTG
CTAATTTTGTATTTTGTAGTAAAGATGGGGTTTCACCATGTTGGTCAGTCTGGTCTCGAA
CTCCCGACCTTGTGANCTACCTGCCCCATCCTCCCAAAGTGCTGGGATTATAGGCCTGAG
CCACCGCACCGGTCTCTCCTTCTCTTTTAAGCTCTGGTCCCAAAGTCTACCCGCTTCCC
CAGCCAGGCCTCCCCCTGAGCAGACACACTGACCAAGAGAAAGCCTCCACCTACTGCCTG
GACATGCAAACCCTGCCGAGCCCAAGGCCTTGGAGAGCTAGAGTTATGCTTCCGGCCAA
CGCTGAACCCTTCTTAGCTTAAACCGGGGTAAGTGGGGGATCTTTTGAAAGGAAAGGATT
CTTANATGCTCAAGAAAATTCCAGTTTNGAGAACTTGAAAA

Sequence 5701

AAGCCGCGCAATTTAAAACCCTTCACTTAAAAGNNGGGAACAAAAAGACTTGNGGGTTA
CCCGGGGGCCCCCCCCCTTCGGAGGAGGTTACCTTTCTTAAGAAATTTAAATTAACCG
CCNGGGGGGGCCAAGAAAAAAAANGGGGGGGCCGNGGCGGGGACNTTNCGGGCTTTTGTT
TTGTGGTTTTNGCTTTCTTTTGAANATTTCCCCCGGAAAAACNGGTTCCTTGCNTTCT
TNCCCNCAAAAATTCCCTTTNCCCAAACCTTTTTTNCCCAAACCAATTTTNNGTNCCCCA
CCCTTAAATTTNNAAGACNCCGNNCTTCCCGTNCCCTTTNTTGTCAAANCAAAACCAAA
NCCAAACCANANCTTTTTTTTGNAGGGGGGAAAAAATTNGTAANGCNAAGTTNNTTTTT
TTTTTTTTTTTCNCCCCCCCCNGGGGGTNGGGGTGTNCCTTTTTTAAANAAAAAATATAA
NTTTTTTCTNTTNGGGGGGNTGGGGGAATTTNCTTTNCCCCCCCANTTAGAAAAANCCA
AGGCCAAATTTTANTNTTGGGGNCCAAAATTTGGAATTTAAAAATTNGGGGGCCNAAATT
TTGGGGGGGAAAAAAAATTTGGGGGGGGGGGGGGGGTCTNTTGGGNAAAAANCCA
ANCCGGNTTTAACCCCNNAATTACACTTTTTNAAATTTCCCTTTNANNAATTTCCCCCA
AANAAAAAATTTNGGGNNAAATANAAACCAANTTTGGGGGAAAGGAAAAAAGGAAATTT
TTTCTTTTTTTTTTTG

Sequence 5702

CGCTTTTTCTTTCTTTCTTTCTTTTTTTTTTTTTTAGACGGAGTCTCCCTCTGTCACCCA
GACTGGAGTGCAATGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCGAGTTCAAGTG

Table 1

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ATTCTCCTGTCTCAGCCTCCTAGTAGCTGGGATTACAGGCGCCTGCCATCATGTGCCGGC
TAATTTTGGTATTTTGTAGTAGAGATGTGGTTTACCACATATCGGCCAGGTTGGTCTCAAAC
TCCTGACCTCAGGTGATCAGCCCGCCTCTGCATCCCAAAGTCTGGGATTACAGGCGTGA
GGCCACCACACCCAGCCCGGATTACCCTTAAGTAGGAGGTACATTCTCTTCCATTGAAAA
AGAGAGAGAGCAGAGAATAGATGCACAGGCAAGCAGATCTGTATCCATTTTGGTGTGGGA
AGTTGCTTCCTCTCTGANGNTCTCTCTCTCTCTCTCTCTGGCTNTCTCTCTCTCTGGT
TTTCTCTCTCGGGCTTCAAGTAGGGAATGATTAAGTGAGGGGATACTGGTTGCTAAAGTA
GNAAGAAAATA

Sequence 5703

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTTTGC
TCTTGTCACCCAGGCTGGAGTACAATGGCACAATCGCGGCTCACTGCAACCTCCACCTCC
CGGGTTCAAGTGATTCTCCTGCCTCGGCCTCCTGAGAGCTGGGATTACAGGCACCTGCCA
CCATGCCTGGCTGTTTTTTCATATTTTGTAGTANAGACGGGGTTTACCACATGTTGGCCAGGC
TGGTCTTGAGCTCGCGACCTCAGGTGATTGCCCCACCTCAGCCTCCCAAAGTATTGGGAT
TACAGATGTGAGCCACTGTGCCCCGGCACTTTTCTGCTTTTAAATACAATGATTTTAGAAA
GTCTGTATATGAACTTTGGGCTTGTACCTAGATATCCCAGTGTGTGTAGGGAGCCCTGTA
TATCTGCAAGGGGATCCATTAGACCAAGGATATTAGATCCAGCACTTCTCCTTTTTTA

Sequence 5704

AAGNCGCGCAATTAAACCCCTCACTAAAAGGGGGAACAAAAAGNCTGGGGGGNTACCGGG
GGGCCCCCCCCCTCGGGAGGAGGTACTTTCTTAAGNAAATTAAANTTTAAACGGCCGGGGG
ATTGGGCAACCATTGCCATGGCCGGCCAAAGGTNAGGGGTTCTTACCAATGGGAACGGCT
TACNTTTCCTTANTTCANTAAAGGAAAGGGAAGCCTTTTNTTCAACCCTTTTTTCAA
TGGATTTCAANCCGCCCCCTTAGTAAATCNCANTTTTTTNCCCTTTTAANTACTNNGGN
NTTTTCCCTTAAGTTCCCTTNGGNANTTGGCCCCNTTTTTTTTNCCTTAAAAAAACC
NTTTCAANAAAAAACCAAAAAANAAACTTTATAACCTTAAANTAACCTTAAACCATTTN
TTTTAANNAAACCGNCCCTTCAAAGGGGAAAAAATTATTGNAAAAAACCCGGGGGNTTT
GGAAACTTTAATTTTTCCTTNGGGCCCCGGNNGCCAAANTTCAAATTNCCCTTTAAA
GNGNTNCCCTTTNAAATTTNGGGNNNNCCCTTTTNCCCAAATTTNCCCTTTAACNGNG
CCAATTNTCCCTTTTTTTTANCCAANTTAAAAACCAAGAAACCCNNAAGGGGGGTCCNA
AAACCGGAATTTNCCCCCTTNCCCCCTTTTTTAACCAATTTTNAAAA

Sequence 5705

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTTTTGAGACAAGATCTTGTCTGTACCCAGGCTGGAATACTGNGGTGCAATCATAGCT
CACTGCAGCCTCAAACCTTCTGGGCTCAAGTGATCTCCACCTCAGCCTCCTGAGTANTG
GGAATGCAGGCACATACCACCATACTGGCTAATTAAAAAATTTTTTTTAAATCTCACTG
TATTACTGAAGCTGGCTGGAACCTCTGGCCTTGAACGATCATCTCAGCCTCCCCAACTC
TGGGATTACAGGCATGAACCATTACACCTGGCTTGAAGAGAAGAGGTTCTTAATATTGAA
GAAGCCATTTATCTGNTTTTGNTTTTTTTCCCTCATGTATTGGGTTTTTGGTATTGGAT
CTAAAGAGATTGTTGCTTAACTCAAGACCACAAAGANCCTTTTCTATTTTTTTCTTCTAA
GNTTTTTGNAGTTCTAGGTTTTACATTTAAGTCTCCAATCATTTTGAGTTAAATTTGNG
TATGGGGNGATGTATGGACAATGGTCATTTTTTTTGCATATGAATAACCATTATTTAAC
NCCATTTATTGAAAAGACTATCNTTTTGCCCATGAAATTAACCTTGCATGGCTTTTGNA
ATCAACTNTCTATATATATGGGGGGNCTACCNGGTCTGGCATATTTNACTATTTGGATAA
GTTNGAGAATATTAACCACCCCGGGCTTAATTTTAAATAGNTTTANAAGNCTNAAAGGCA
GGCAAGAACNANTTTCCACTTTGGTATTTTTTCAAAAAATACCTTNGGATTTTAAAT

Sequence 5706

AGTACTTCTAGAATTAATTAAGGCGGGGGATAAAGTTAAGGTGTAGAGTATNTATTAGGT
TATTTGGCTTGTTTGTTTGTATGCAAATCATGTTAGGTTGTTATCACCTTAACAATAA
TGGGTTATAAGATAGTATGTTCTGGCCTCATGGTAACCTCAAACCAAATACATACAATG
GATACACGAAAGATAAAAAGCANGAACTAAATCATGTCTTCANAGAAAATCATCTTCAC
TAAAAGGAAGACAGAAAGGAANGAAATAAGGAAGAGAAATCACAAAACAACTGGAAAAG
AAATAACAAACCGGCAGGAGTAAATCCTTATTTATGAACAATAATATGGAATGTAAATC

Sequence 5707

CGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGACCAGAGAGGCCCCCAAACCTAGCAGCCT
GTCCTCCTNAGTAGCCCCAGCATCCCTTCATCATTTTGTGTCCTTCTATGGGCCTAGTT
TAGGTCTGAGAGGCATAGTTTAAATTTTTTATTGGTATTTATTTATTCTANAGATAAGGT

Table 1

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CTTGCTATGTTTCCCAGGCTGGTCTNGAACTCCNNGGCTCAAGCAATCCTCCTGCAGCAG
CCTCCCAAAGTGCTGGGATTACAGGCATGANCCACCACNTNTGGTCAGACAGGCATAGTT
TTACAAATATGTGGGTGGATAAATGCTGGCCAGTCTTACTTCATCACTNCTATCAATTGA
ATGCTTTTGGTTGGAAATAACAGAAAATCCAACATAAAGTGACTTAAACAAAGGAAATGT
TATTATCTCATGTCCCAGGAATTCTGGAGGTAGACTGGTTCAAGGGTGGATTAATTAATT
CTAGAAGTACTCTCGAGGGGGGGCCCCG

Sequence 5708

ATTAATNCACNCTNGTACCAGGCTACCTNCAGAATTCCTGGTACATGAGATAATAACATT
TNCTTTGTTNAAGTCACTTTTAGTTGGATTNTCTGTTATTTCCAACCAAAAGCATTCAAT
TTGATACGAAGTGATGGAAGTAANACTGGACANCATTTATCCACCCACATATTNGTAAAA
CTATGCCTGTNTGACCAGACNTGGTGGGNTAATGCCTGTAATCCCAGCACTTTGGGAGGC
TGCTGCANGANGATTGNTTGAGGCCAGGAGTTCAAGACCAGCCTGGGAAACATAGCCA

Sequence 5709

CNGCCCCCCTCGAGAGTACTTCTTTTTTAATTAACGCGGGGGATNNANGTCACGGTTTTT
NAGGTGCAGCTGCCGCCACCGCCGCTTCTGCAAGGTCTCAGGGACGGGCTGCAGCCATGT
CCTATTGCCGGCAGGAAGGGAAGGATCGAATCATATTTGTAACCAAGAAGATCATGAAA
CTCCAAGCAGTGCAGAATTGGTGGCTGATGACCCCAACGATCCATACGAGGAGCATGGAT
TGATACTGCCAAATGGAAACATTAAGTGAAGTGGCCATGCCTTGGGGGAATGGCCAGCG
GTCCCTGTGGAGAACAGTTTAAGTCAGCCTTTTCCTGCTTCCACTATAGCACGGAGGAGA
TCAAGGGGTCAGACTGTGTAGACCAGTTCCGGGCCATGCAGGAATGCATGCAGAAATACC
CAGACCTCTATCCCCAANAGGATGAGGATGAGGAAGAGGAAGAGAGAAGAAGCCAGCNG
AACAAGCAGAAAAACAAGCTTCCATTTGAGGCCACTGCAACCAAGAAGAAGAGGGATCA
AGTTAATGAANGCCACAAGGCACTGGGCACCAGTCCTTTTGGAGTGGACCTTTTGCAAAA
GGGCCTTGNNATTACCTTTCAAGAAAGGTTCCTTNTGTTGNCTGGTGCCTTATAATATA
CCAAAAACCTTATTTTGATGAACANAAGGTNTTGGAGGGNTTGACATNTTGGACATATT
CCCCTGAAAAAAAANGGGGGTTGGATGTATGTGNGTCTTACCCAAACCTTTGGGCGCCCC
TTTNGAATTCTAAANTGGCCCGAATTTTNCCCTTTA

Sequence 5710

TCGAGAGTACTTCTAGAATTAATTAACGCGGGGAGTTATNANAGATAATGCACACCTTAA
AATNTTACTACTGGGTATTATTAATCCTGCTGACAGNTGTGGCATTACACCTAANGGATGAG
GTGCCCATTTCCAGGTCCAATCGGTGCAGTCTGGGGCTGAGGTGAGGAAACCTGGGTCCT
CAGTNAAGGTGATCCCANATACACCTTCACCTTCCACTAC

Sequence 5711

AGTACTTCTAGAATTAATTAACGCGGGGTGGGGTGGCATCTGCGATTCAAGACAGTTTTT
TACATCTCTTCAGTGCCTCTTTCAGCTATATGAATTAATAAACCAGGTACTGTGGGTGCTC
ACCTGAATTCTGGTTCTTATGAAGGTGCTTTTATGGTGTAATAGTTTTTAAATTGGTGT
CCTTGTAGAGGGGACAATCGGTAGAGCCTTCTATTCTGCCATCTTGCCCCATCTCCTCAC
CTTGAAATTTATATTATATGTTAACTATAAAAGCTTTACTTAAAAAGAAAATTCTGAACA
TCGGTCATACCCATTTATCAAAAATGACTATTATTTTTTAAACTGGAAGATCTTACTATT
GCAGGTATTTTGATAACAAAGGTTATAATGGGAGTACGTTTTTTATTCTAAGTCATAACAT
TNATCATTTTAAACAGATAGNTAAAATATTNAACTCTGCGTAATTACCAGTAAGTCATTTT
ATATGCTTTCTGGCTTTTAAAGAAAGATTTATTNTCCACTACCTTAAACAATCTTATAGTA
TGGTGGGCANAATAATTGCACCCACCAANGATGCCACACCCTATCTCTGGAATTTGTGA
ATATGTTGGAATTCAGGGGCAAAAGGGANTTGCCAATGTGNTAANGCTAANAATGTTGG
GATGAGGAANATTATCCNGGATTATTCCNANTGNACCCAAATNTAATCACATGAAGCCCC
TAAAGNGGNTAATTATTACCGGTTGGGGTCAGAGATGGGGAGAACCNGTGGGAGACCGGA
GGGCCCAANACCTTCAATNTGAACAGNCCTCACGGNTTTTACCTTTAAAGGGG

Sequence 5712

TTGGAGCTTNCCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTNTNNTNTTTTGAG
GAAGGCACCTACAAAACGAANGTGCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAA
ATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGAAAC
TGAAGCTCAGGGAGGCTAGGAACTTATCCAAGCCTCTTAAGAGGCTATGTTAGTCAGA
CTGGGCTAACAGCTGTAACAACCCAGAAATTTAAATGGCTTAACACATTAGGAGTTTATT
TGTTATTGCCATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTCAGG
GACCCAGGCTCCTNCCCTCTGGGGGGCTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATG
CAAATGGNGGATGCAGAAAGAGAACAAAAAGTGGGGGATTTTT

Sequence 5713

Table 1

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ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTT
 TNNNNAAAAGNCCGTTCTTACGTATTTTTTTTTTAACTTTTATTTTCAGTAGTGTGTTGGGG
 AACAAGTAGTGTGTTGGTTGCATGGAAAAGTTCTTCAGTGGTGATTTCTGAGATTTTGGCC
 ACCCATCACCCAAGGGTAAGTCTTTTTTATCCATCAAGTCTGTACCCAATGTGTAGTCTT
 TGTTTTTTTCTTTTTTTTTTTTTTTTGANACTGAGTCTCATTCTATCACCCAGGCTGGAGT
 GGAGNGGCATGATCTTGACTCACTGCAACATCTGCCTCCCGGGTTAATTAATTCTAGAAG
 TACTCTCGAGGGGGGGCCCGGTCCCAACTTTT

Sequence 5714

TTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTATGGAGTCTTGCCATATTGCCCAGGCTGGTCT
 TGAACCTCTGGGCTCAAGCGATCCTCCTGCCTCAGTCCCCCTAAAGTGCTGGGATTACAGG
 CGTGAGCCACCACACTCGGCGAGGTTCATTTTTCTCATGTGAAAGACTTGACATTCATCT
 CTGCCCACACTTTGATCATATCANAAAACAACCTGTGCAGCCGCTTTCTGATTGCTGAAG
 CCGCTTCATTCTTCCTCAGCAGGACCCATGTCTCGGACATAGGAATCCGGCCGCTGCATC
 TTCACCTTTTTTCCCGTACTGGTATCTATCCAGGTGTCGGACCCGTAGATCATAGTGATA
 GGCACATCTTTTCGAATCAAGTGAATTCGCTCCAGCATAGGGCGCCGGGCCAGCCAAAG
 GACTCCATCATG

Sequence 5715

TCGAGAGTACTTCTAGAATTAATTAACGCGGGGGGCGCAGTGGCTCACGCCTGTAATCCC
 AGAACTTTGGGAGGCCGAGGCGGGCGGATTACCTGAGGTGAGGAGTTCGAGATCAGCCTG
 GGCAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTCACAC
 ATGCCTGTAATCCCAGCTACTCGGGAGCCTGAGGCAGGAGAATCGCTTGGACCTGGGAGG
 CGGAGGATGCGGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGCAACGAGTAAATC
 TCCGTCTCACCCNANNAAAAANANANNAAAAAGCGGCCGCCACCGCGGTG

Sequence 5716

ACTCTGATTTATTGNGGGGTAAAGCATGTTATAGTGNTCCAGCTTCACTTTTTTTCTGAA
 TGGCTATCCAGTTGTCCCAAGATCATTTGNTGAATAATTCATTTTCCCCCATTTGAAATG
 ACACCTTTTCGTATACTAAAGTCCCAAGTCTCTTAGTTATAAAACAGTAATAAACCTTG
 AAACAGGCATTTTCCATAAAATACATTTTGTTTAAGTAAGACAGTTTTTCCCCCGCGTTAAT
 TAATTCTAGAAGTACTCTCGAGGGGGGGCC

Sequence 5717

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTCTTTCTTTCTTTTCTTT
 CTTAATTGACGAACAANGGANTCCNGTNNTGNTGCCCATGCTGNAATGGAGNGACACAAT
 CCNGGCTNACTGCANCTCCACCTGCCTGGTNCAAGTGATCAAGTGATTCTCCTGCCTCA
 GCTACTGAGTAGCTGGGATTACAGGCACCTGCCANCATGCCAGCTAATTTTTTTTATTT
 TTTNNNTTANCAGAGACANGGNTCCACCNTGTNGNCCAGGCTGGTCTTGAACNCTGACC
 TNANGAGATTCACCTGCCCNGCCTCAANCTCCAAAGTGCTTGGATTACAGGCNTGAGCCA
 CTGCNCCCAGCCATTTTTNTTTTTATTAAAAAGAAAATNTTATCTTTGNGGGTNATAAA
 CAGNAAACATTTGGGNNTAATAAAAACTTGGGAGCATTTNGNTATGTGTGTGCCTGTNTG
 TGTGCGCACCNCTGTGTTTTAAAGATGGANTCTTNCATNTNNCCANGTNGGAGTGCAG
 ACGCTCCCNCGTTANTTTAATTCTAGAAAGACCGGTCNANGGGGGGGCC

Sequence 5718

GGAACAAAAGCTGNGTCCGGGCCCCCTCGAGAGTCTTCTAGAATTAATTAAAGTCAGCA
 TGATGTATTAAACAAAGCATAATAATAATAAAATTTTAAAAAATGTAAACTTTTACAAT
 CATTGAAAGGCAAAAATAAAATAAAACAAAATAAAATACAGTTGATCCTTAATATCTGTG
 GTACATTTATTCCAGGACGCCCCCTCTTACCCTCCAGATACCAAAGTCTATAGATGCTCA
 AGTCACTAATATAAAATGGTGTAGTATTTGCATATAACCTATGCACATCCTCTCATAGAC
 TTTATTTCTAATTAATTTTATTATTTTAAATTTTGNNGGTACATAGTATGTATTTATAT
 GTGTATATATATACATATATATGGGGTCATTACATGTTTTGATATAGTGATAGCTTAACA
 GGATGACTATAGTCAATAATAACTTGATTGTACATTTTAAATAAGAGTGCAATTGGATTG
 TTTGNAACTCCTGTATACTTTAAATCATCTNCAGTTTACTAATACTAATAACAATGTAAA
 TGCAAGGGGAAATAATTGGTATACCTGGATTGGTTAAGGGGTATGGCCAAGAAATAAAGG
 CTGTACATGTTCACTGNAGAAANAAGCCTTCATTCTTNTTTTTNAAAAAATTTTTTGGA
 CTAGNGGATCCCAAGGCTGGCCGNATTCCTCAAAAAATGCCATAAAANTTTCNTAAAAGAC
 AGAATAAACCNNGGTNGGACAAAANAGGNTCCAGACCCCGAGGGGACCCCTTTNAGTGAAC
 TTGTTTAANATNCNNATNTTGGGTTTTGCCCTTTTNTTTGGGGTTANNTTTNAAAATCC
 CAAAATT

Sequence 5719

Table 1

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CCGCGGTGGCGGCCCGCTTTGAGGAAGGCACCT
 ACAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTC
 AGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAGAGATGAGGAACTGAAGCTCAG
 GGAGGCTAGGAACTTATCCAAAGCCTCTTAAGAGGCTATGTTAGTCAGACTGGGCTAAC
 AGCTGTAACAACCCAGAAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCC
 ATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTTCAGGGACCCAGGCT
 CCTTCCCTCTGGNGGCTTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCANATGGNGG
 GATGGAGAAAGAAAACAAAAGTGGGGGAT

Sequence 5720

TTT
 TGGAGTGCAGCGGTATGATTATGGCTCACTGCAGCCTCGACCTCCTGGCCCCAGGCGATC
 CTCCCACCTCAGTCCCCTAAGAGCTGGGACCATAGGTATGTGCCACCACACCCGGCTAAT
 TTCATTTTTTTGTAGAGATGAGGTCTTACTATGTTGACTAGGCTGGTCTCGAACTCCTGGG
 CTCAAGCAGGCCTTGTGCCTCGGCCTCCCCAACTGTTGGGATTATGGGCGTGAGCCACTG
 TGCCCCGTCTGCTCGCTGAATTTCTAATGAGCTTGAATTACAGGAAGTAAAAATAAATTT
 TCCACTTACAGACCACTAACCAGTTTAGAGCAAATCTGTAAGGAGTGTATAGATTATGCC
 ACACGAGCGCATGAAGCTCCACATGTTTAAAAGACAAAGTTTACCTNNTGGGGAACAGCA
 AGTGTTCAACTAGGGAGGGCATNAACCATGAACCTGGAAAAAACCAAGACATTANGGNG
 GNGGNTNGGGGNGNCTTTTATTTTAAAAAACCTATTTTAAAACGTTCCCTTTTCCCCCA
 AAAAATTTANCNACGAAAGGCAATGCCCTTATTGTTANAACTTCCTTACTTTTCTGAACCTA
 ANCCANGGNGAACCTTTTGNCGCGGGGGGGTAAANAAG

Sequence 5721

GGGAGTCTTACTCCGTCACCCAGGCTGGAGTGTGGTGGTGTGATCTCAGCTCACAGCAAC
 CTGACCTCAGGTGATTCACCCGCTNTGTCTCCCAAAGTGCTGGGATACAGGCGTGAGCC
 ACTGCGCCCGGCGTCTTTGAATTTTTTAACTGAAGTTTAATTGCCTTTGAGTTTGATCA
 TTTACTATTTGNCATTTGTATTTCTTTTGTAAATTATCTGCTCAAGCTCTAATTTCTATAA
 TGGAATTTAATGGATTAACATATAACACCCACTATCACCCGCNTTAATTAATTCTAGAA
 GTACTCTT

Sequence 5722

CCGCGGTGGCGGCCCGCTTTGACCAGAGAGGCC
 CAACTANCAGCCTGTCTCCTNAGTAGCCCCAGCATCCNTTCATCATNTGTGTCCTT
 CNATGGGCCTAGTTTAGGTCTGAGAGGCATAGNTTTAAATTTTAATTGCNATTTATTTAT
 TCNAGANATAAGGTNTTGCTATGTTTCCCAGGCTGGACTTGAACCTCCTGGCCTAAAGCAA
 TCCTNCTGCAGGANCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACNTTGTGGN
 CAGACAGGCATAGNTTTACAAATATGTGGGTGGATAAATGCTGTC

Sequence 5723

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTGGCGATGCAGGCTCTTTTTTGGTTCCATATGAACTTTAAAGTAGTTTTTTCCAAT
 TCTGTGAANAAAGTCATTGGTAGCTTGATGGGGATGGCATTGAATCTATAAATACCTTGG
 GCAATATGGCCATTTTCACGATATTGATTCTTCTTACCCATGAGCATTGAATGTTATTCC
 ATTTGTTTCGTATCCTCTTTTATTTTCAATTGAGCAGTAAGTTTGTAGTTCTCCTTGAAGAGG
 CCTTCACGTCCCTTGNAAGTTGGATTCCTAGGGATTTTATTCTCTTTGAAAGCAATTGTG
 AATGGGAGTTCACTCATGATTTGGCTCTCTGGTTGNCTGNTATTGGGGAAAAAAAAGCT
 TGNGAATTTTGNACCATTGATTTTGTATCCCGGAGACTTTGCTGAAGTTGCCTATCANTT
 TAAAGGAGAATTTTGGGCCTGAAATGAAGGGGGTTTCTAAAAAATAAAAAACATGGTCAT
 CTGCAACAAGAAACCAATTTGGACTTNCNGGTTTTCCCAAATGGAAAGCCCTTTTAATT
 TCCTTCTCCTNGCCGGAATTGGCCCTGACCAAAAACCTTTCAAACACTATTNTTNAATT
 GGNAANTGGTTAANAAAAAGGGCCATNCCCTGNCNTTGGGCCCCNGTTTTTA

Sequence 5724

GCCCCCTCGAGAGTCTTCTAGAATTAATTAACGCGGGGGCAGAAAAGGGNTNNNTTNNC
 TCGGCTTGNTGTGTTGNGGGGTNATTGNNNNAGACNGGTCCTGCTGCTNCCGNAGCCTGC
 CAGCTGTCCNACGATGCTTCCACCTAANTNAAGCCGNCGTCGCCCCCTNNACAACAAC
 AACAACTGCNANGAAATGACCATTCTTTGCCCCCGNCGGCCGGCCTTAACANGTTCCCTG
 GGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGATANTGGCAATGNGAAAAATGGGG
 GGCTGGACACGTACCATNCTNATCCTNCATCCACAATGGAGACATTGGAGAAGATCTT

Sequence 5725

TGGGTCCCGGGCCCCCTCGAGANTNAGANTNCTTCTAGAATTAATCAACGCGGGGGGCT

Table 1

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TTTTTTTNGACCTACCTGGAGCTGGCCAGNGNNTGTNATGGANCAACATNCGGGNNTNNA
GATCGAGTCGCGCCTCGGGGGCACAGGTGAGGCTCGCATAACACCTGNTGGGTGCCTTTG
AGATAGAGATAAATGGACAGNTGGTGTCTCCAAGCTGGAGAATGGGGGCTTTCCCTANG
ANAAAGANCTNATTGAGGCCATTTCNAAGAGCCAGTAATGGANAAACCCTAGAAAAGATCA
CCAACAGCCGCCCTCCCTGCGGTNATCCTGTGACTGCACAGGACT

Sequence 5726

AGTACTTCTAGAATTAATTAAGGCGGGCAGTGTTTCATGTTTCAAAGCTAACACTGGCAT
GACTGACTCAATGTTGGACCCAGACAAATTAATAAATGGTAGATAAAAATACATATAATA
CGCCGGGCGCGGTGGCTCAAGTCTGTAATCCCAGCACTTTGAGAGTCCGAGGCAGGTGGA
TCACAAGCTCAGGAGTTCAAGACCAGCCTAGCCAATAATGGTAAAACCCCGTCTCTGCTA
AAAATACAAAATCAGCTGGGCATGTTGGTAGGCACCTGTACTCCCAGCTACTCGGGAGG
CTGAGGCAGGAGAATTGCTTAAAGCTGGGAGGTAGAGGTTGCAGTGAGCCAAGATTGAGC
CACTGCCCTTCCAGCCTGGGCTACAGAGCAAAGACTTCCGTCTCAAAACAACAACANCAA
AAACATAAAATACTCAAACAATTAAAT

Sequence 5727

GCGGGGGATAAAGTTAAGGTGTAGAGTATTTATTAGGTTATTTGGCTTGTTTGTTTGT
ATGCAAATCATGTTAGGTTGTTATCAGCTTAAAATAATGGGTTATAAGATACGTATGTTT
TGGCCTCATGGTAACCTCAAACCAAAATACATACAATGGATACACTGAAAGATAAAAAGC
AAGAACTAAATCATGTCTTCAGAGAAAATCATCTTCACTAAAAGGAAGACAGAAAGGAA
AGAAATAAGGAAGAGAAGATCACAAAACAAGTGGAAAAGAAATAACAAAACGGCAGGAGT
AAATCCTTATTTATGAACAATAATATTGGAATTGTAAATCACTAAAATCTCCAATCAAA
ACACAGACTG

Sequence 5728

AGTACTTCTAGAATTAATTAACGCGGGTATCAAAGTACTCAAACCTATATATCATATACTG
TACATAAAATATCAAAGTACCCAAACTGTGTATTATTATATACTGTATATAAAATATCAA
AGTACCTGAAATATATATTGTATACTGTACATAAAATATCAAAGTCCCCAAAATATATAC
TATATACTGTACATAAAATATGAAGGTACATCAAATATATATTATATCCTGTACATAAAA
TATCAAAGTACACCTAATATATATTGTGTACTGTACATAATATATTAAATCGCCCCAATA
TATATTGTATACTGTATATAAAATATGAAGGTACTTCAAATATATATTATATGCTGCACA
TAAATATCAAAGTACCAAAAATATGTATTATATACTGTACATAAAATATGAAAGTACCC
AACCATTTATAAT

Sequence 5729

AGTACTTCTAGAATTAATTAANGCGGGCGNGNTGGCGNGCACCTGNAGTCCCAGCANCTN
NGGAGGNTGANGNANAAGAATGGCNTGAACNCGGGANACNGANCTTGNNTNGANCCGAGA
TC

Sequence 5730

AGTACTTCTAGAATTAATTAAGGCGGGGGTGGAGGTGGGGACTCTGGAAAAGCAGCCCC
CATTTCTCGGGTACCAATAAAATAAACATGCAGGCTGAAAAAAAAAAAAAAAAAAAAAN
CAAAAAAAAAAAAAAAAAAAAAAAAAAANG

Sequence 5731

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGAAGGCACCTA
CAAAACNAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTANCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAAAGATGAGGAACTGAAGCTCAGG
GAGGCTAGGAACTTATCCAAAGCCTNTTAAGAGGCTATGTTAGTCANACTGGGCTAACA
GCTGTAACAACCCCANAAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCA
TAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGNGATTTCAGGGACCCAGGCTC
CTTCCCTTTGGNGGCTTTTTCTCCCTCTAGTGCTGGGAGCTNTCCATGCAAATGGTGGAT
GGAAAAA

Sequence 5732

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTTTTNNNNNAACATNAAACTCTGATTTATTGGGGGGTAAANCATGNTATANTGTTCCAN
CTTCACTTTTTTTCTGAATGGCTATCCAGNNGNCCCAAGATCATTTNTNGAATAATNNAT
TTTCCCCCATTNNAATGNCACCTTTTCNNATACTAAAGTCCCAAGTTTTTTTANTTATAA
AACACGTAATAAACCCCTTGAAANAGGCNTTTTCCTAAAATACATTTTGNTTAAGTAANAC
AGTTTTCCCCCGNGTTAANTAATTCTAGAAGTACTNTNGAGGGGGGGCC

Sequence 5733

AGTACTTCTAGAATTAATTAAGGCGGGNGATAGNGGGTGTGATATGNTAATCCATTAAAT

Sequence 5741

Table 1

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ANAGAGGCCCCAACTAGCAGCCTGTCCTCCTNAGTAGCCCCAGCATCCCTTCATCATTT
TGTTGCCCTTCTATGGGCCTAGTTTAGGTCTGANAGGCATAGTTTNAAAATTTTTATTGT
TATTNATTNATTCTANANATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACCTCTG
GCCTNAAGCAATCCTCCTGCAGCAGCCTCCCAAAGNGCTGGGATTACAGGCATGANCCAC
CACGTNTGGTCANACAGGCATAGTTTTACA

Sequence 5742

AGTACTTCTAGAATTAATTAACGCGGGACCGCGGGCAAAGAAGGTAGGCCGGGNTGTCTG
GTGGAAGCGGNGGAAGTCCTGCTGCTTGAAGTCATTGGAGGAGCCAGCCTTCTGTCCACC
TACCTGCANAGCATTGCGGGAACCTTCTTGGANATGACCGACTGGCCCTGGGACTTCTTC
ATTCAACCTGAGTGCCGGCTCGACTACCCCATCAGGACAA

Sequence 5743

GGCCCCGGGCCCCCTCTAGAGTACTTNTAGAATTAATTAAGGCGGGGGTCTTTCTAG
GGTGATGGAAATTTCTAAAATNGAATCTGAGGATAGCTGCCTATATCCGTAAATATGTGAA
TATGCTGAAAAACCATTGACTCGTGCACCTTTAAATGACTGNANTTGTATGGGTACATAAA
ACTGTATCTCGATAACACCTTCTCAAAAAGAATAAATGCAGTGGCTCACACCTGTAATCC
CAGCACTTTGGGAAGCAAAGGAGGGCCAATCACCTGAGATCAGGAGTTCGAGACCAGCCT
GACCAACATGGTGAAACCCCATCTCGACTAAAAATACAAA

Sequence 5744

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTNAAAAANATGGCTTGTTTATTCTTTTTCTCCCTTTTTNNTTTATTTC
TTAAATTTTTTTCTCATTTTCCCTTTTAATTTCTTTATTGGNGGTTTATTTATTTTGAAA
CANAGTCTTACTTTTGTNCCCCAAGNCTGGANGTGCAAGNGGCCGTGATCTCAGCTCAT
TGCAGCCTTGACCTTTCAGGCTCAGTTGATCCTCCACCCCGCCTTAATTAATNTAN
AAGTACT

Sequence 5745

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTCCGGGTNCGGANCCGTTCCGGATGCTTTAGGCTGCCGGATGTCNGATCTNCGG
ATAACTGAGGCGTTTCTGTAC

Sequence 5746

GGGGGGNCCGGNAAANTTTTGGGGGNAAGNCCTTCCCCACCCCCGGCCGGGGGTTTGGG
GGGNCCCCGGGGGCCCCCCGGGCCCTTTTNTNTNTTTTNTNTNTATNTNTNTNTNTNTTA
TTNTNTTTTNTNTNTNTNTGGTAATNTTATCTTNTNTAAAAAAAATNNCCTTTTGGGG
TNACCAATTTNCCTTTTGGGGGGNCNACCTTTGGTTTTTTTTTNTTAAAAAAGAAAAAA

Sequence 5747

AGTACTTCTAGAATTAATTAACGCGGGACCGCGGGCAAAGAAGGTAGGCCGGGCTGTCTGC
TGGAAGCGGTGGAAGTCCTGCGGCTTGAAGTCATTGGAGGAGCCAGCCTCCTGTCCACCT
ACCTGCAGANCATGCGGGACCTCCTGGANATGACCGACTGGCCCTGGGACTTNTTTATCA
ACCTGANTGCGGNCGACTACCNCATCATGGACAAATGACCAGTTGGTGGCGTTTNTCTCC
CGATACCGAGATATGAATTT

Sequence 5748

CGCGGCGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTGAAGATGGAATCTCACTCT
GTCACCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGGAAGCTCTGCCTCCCAGG
TTCACACCATTCTCCTGCCTCAGCCTCTCAAGCAGCTGGGACTCAGGGCCAGCCGCCATG
CCTGGCTAATTTTTTTNGGTATTTTTTAGTACAGATGGGGTTCACCGTGTTAGCCAGGAT
GGTCTCGATCTCCTGACCTCGTGATCTGCCCACTTCAGCCTCCCAAAGTGCTGGGATTAC
AGGCATGAGCCACCATGCCCGGCCGATTTACCTTTCAATGGCAATTACTATAAGACAGG
AAAGTTATTTATTTTATATATTACCTAATTTTAAGTTACCTTATACAACCTCATTAAT
AGCTGGTAGAACTAGAATTAACCTCTATGTGAATATGGCCTTATTTAAACAATGTATCCC
TAGCACCTAAACAATGCCTAACCTGNACATAACTAAANATATATTNAATTAATATTTTN
GGNAATTAA

Sequence 5749

TTTTTTTTTTTTTTTTTTTTNNNAACATTTAACTCTGATTTATTGNGGGGTAAAGCATGTT
ATAGTGTTCCAGCTTCACTTTTTTTCTGAATGGCTATCCAGTTGTCCCAAGATCATTTGT
TGAATAATTCATTTTCCCCCATTTNAATGACACCTTTTCGTATACTAAAGTCCCAAGTCT
CTTAGTTATAAAACAGTAATAAACCTTGAAACAGGCATTTTCCCTAAAATCATTTTGTTT
AAGTAAGACAGTTTTCCCCCGCGTTAATTAATTCTAGAAGTACTCTCGAGGGGGGGCCCG

Table 1

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GACCCAGCTTTTGTTCCT

Sequence 5750

CGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCTACAAAACGAAAGTG
CCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCAGTCATTTTCAGAA
AGGTTTTTCCAATTATCATTTTAGAGATGAGGAACTGAAGCTCAGGGAGGCTAGGAAAC
TTATCCAAAGCCTCTTAAGAGGCTATGTTAGTCAGACTGGGCTAACAGCTGTAACAACCC
CAGAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGG
TGTATGTTTGGCAGGTAGTCTACACAGTGATTCAGGGACCCAGGCTCCTTCCCTCTGGTG
GCTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCAAATGGTGGATGGAGAAAGANAAC
AAAAAGTGGGGGATTT

Sequence 5751

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TGAAGAATCAACAGACTCTATATTTGATCACAAAGCAAAGTTTAAGTGTATTACTTAAA
ATTTTAAGACAAAATCTGGAATAATTATAACTAACACAAATTTTGAGGTAGAGGAAGAGA
ATCTANGATNGGTGAGATAAAATTTTCATCTTTGATAATGAGTAGACAAAANCNCTNCCT
TTAACAAGTGAAGAATTTAAAAAATTTAGAGAAGAGGAAATCATANGTGGTTTTT

Sequence 5752

GGGGAANCCGGCCCCGGGCCCGTTTTNNNTTTTAAAAAAACCCGGGNAAAACCTTTNNCCC
NAACTTTTTTTNAAAANNAGGGGGGGGGGGCCCCGGGGAAAAAANTATTTTGGGGGGGG
GGAAAAAACCCCTTTTNNCCCCCCCCNAAACCCCGGGGCCCGGGGGGGTTTTGGGGGGG
GGCCCCCGGGGGGGGGCCCCCCCCCCCCGGGGCCCCCT

Sequence 5753

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGAGGGACATGATTTAAACTATGGCAGGT
ATCAGCCCACCTCCCAATTCACCTGTGGATTCATGATCCACAGAAAAATAGAAAACCTGGA
CCCCGCAGTCCAAGCAAAGCCACACAGACAGGGCACATAAAGGTTTGGTGACTCAAAAAA
AAGAAGCAATGAAGTGCATTATCCACAGTCATTTAAGCAGACTCCACTTACAGGCACACA
CACATACACACACACACAAAACCACACAATGTCTCACACACACACACACAGACATCCAAC
ATTTACAACACTCCACAGAAACACACAGCGTGGGAACTCCTAAGGCTGCCTGGTACTGC
AGGACATTTGAGTGTGGGAGAGAGCCCCCTNTCCCCGCCCGCCCTGGGGAACACAGGCGT
GATGTACCTATAAATCACAGNGGGGCAAGTTTCAAATGACTCACAACATAATGCCTAG
GCAGGCTTGAAGAATCCTACAGATTTCTTTGCATCCTTTGGGATTTTCAGAATTTATT

Sequence 5754

TTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTTGGTCTGTCGCCCAGGCTGGAGTGCAATGGT
GCAGTCTCAGCTCACTGAAACCTCTGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCC
TACCGAGTAGCTGGGATTACAGGGGCCTACCACCATGCCTGGCTAATGTTTGTATTTTGA
GTAGAGATGGGGCTTCACCATGTTGGCCATGCTGGTCTCGAAGTGCTGACCTCGTGATCT
GTCCGCCTCGGCCTCCCAAAGTGCTGGGATTATAGGCGTGAGCCACTGCTCCCGGCCACA
ATCTACAACCTGGATTTGTGCTTTGCAATTTACGCTTTTGAACATGCAGGAATGTAGTTTG
GGCATTGTCTGGAACCTTNGGATTCTNNGGACTCCAGGGTGGCCAAGGCGCGGAGGTGAC
TAAATGACATTGACCGGCC

Sequence 5755

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTCTCGCTCTTTTGCCCAGGCTGGAGAG
TGCAATGGTGCCATCTCAGCTCACTACATCCCTGATTCAAGTGATTCTCCTGCCTAAGCC
TCCTGAGTAGCTGGGATTACAGGCACTTGCCATCATGCCTGGCTAATTTTGTATTTTGA
TAGAGACGGGGTTTACCATGTTGGCCAGTCTGGTCTTGAACCTTGACCTCAGGCGATC
CATCCACCTCGGCTTCCCAAAGTGCTGGAATTATAGGCGTGAGCCACCGCACCCAGCCTT
CTGNGTGTATTTTCTTATGATGTAGAATGAGTGATAAAGCACCATAGGAGTCACCTAGTG
TTGCCTTTTCCATTTTGTAGTTGATAAATGGAGGTCTCAGTCTCTGTTAATTAGTGGTAC
ATCTGGGAAAAGTCAAATGTGTTGAGCTCGAAGGNGTTGGTTTGTGTTGT

Sequence 5756

TTTTCTTTTCTTTCTTTCTTTTTTTTTTTTTTTAGACGGAGTCTCCCTCTGTCACCCAGACT
GGAGTGCAATGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCGAGTTCAAGTGATTC
TCCTGTCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCTGCCATCATGTGCCGGCTAA
TTTTGGTATTTTTAGTAGAGATGTGGTTTACCATATCGGCCAGGTTGGTCTCAAACCTCC
TGACCTCAGGTGATCAGCCCGCCTCTGCATCCCAAACCTGCTGGGATTACAGGCGTGAGGC
CACCACACCCAGCCCGGATTACCCTTAAGTAGGAGGTACATTCTCTTCCATTGAAAAAGA
GAGAGAGCAGAGAATAGATGCACAGGCAAGCAGATCTGTATCCATTTTGTGTTGTGGGAAGT

Table 1

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TGCTTCCTCTCTGATGTTCTCTCTCTCTCTCTCTCTGNCTCTCTCTCTCTCTGGNNTT
CTCTCTCGNGCTTNAAGNAGGGAATGATTAGNGAGTGATACTGGNTTGCTNAGTAGTAAA
GAAAATAAAGAAGGGGAACN

Sequence 5757

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACTCGTCATTTATATTAG
GTATATATACGTGTTCAATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCA

Sequence 5758

TTTTTTTTTTTTTTTTTTTTTTTTTTGGGANGCTCAACCTATAATACCCAAAGGCTCTATTTT
AGTAGAATTTATTGGTTTGCTGATTATAGCANTTGACATAGTGTGCATTCTAGAGACCTT
AGAAAATGCANAAAATTTCAAGAAAAACATT

Sequence 5759

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACTCGTCATTTATATTAG
GTATATATACGTGTTCAATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCAGACTTCACAGTATTTTTTAAATGAATTACATTGCATTGGGGAAAT
ATAAATAGTAATGTCTTTTATAGAGGAAGTCTAAAAGAAATTCTTGGGTGAATTGATAA
TCAAACATTTTTAAGAAGGTATATTTGCTAGCAAAGAAAGAAAAAATATGACAGCTTATT
TATATAGAAAACCTATGTATTCTGGGATTTTTCTTTGNTTCAAGTCTGTATATGAATATC
ATGCTATCCCTTCCCCCGCCTTAATTAATTCTANAAGTACT

Sequence 5760

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCTACAAAACGAAAGTGCCTA
GGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCAGTCATTTTCANAAAGGT
TTTTCCAATTATCATTTTANAGATGAGGAACTGAAGCTCAGGGAGGCTAGGAACTTAT
CCAAAGCCNTTAAGAGGCTATGTTAGTCANACTGGGCTAACAGCTGTAACAACCCCAN
ATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGGTGTA
TGTTTGGCAGGTAGTCTACACAGTGATTCAGGGACCCAGGCTCCTTCCCTCTGGNGGCTT
TTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCAGATGGTGGATGGAGAAAGAGAACAAAA
AGTGGGGGATTTTTATAGGCCAGGCCTGGAATTGGCCACATCACTTCCACACACATTCC
ACTGGCCAGAATGCAGTCACGTGATCGTAGCTAACTGCAAGGAAGGTTGGAAAATG

Sequence 5761

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCAACATTAACTCTGATTTATTGGGGGGTAA
AGCATGTTATAGTGTTCCAGCTTCACTTTTTTTCTGAATGGCTATCCANNTGTCCCAAGA
TCATTTGNTGAATAATTCATTTTCCCCCATTTGAAATGACACCTTTTCGTATACTAAAGT
CCCAAGTCTCTTANTTATAAAACAGTAATAAACCTTGAAACAGGCATTTTCCTAAAANA
CATTTTGTTTAANNAANACAGTTTTTCCCCCGCGTTAATTAATTCTAGAAGTACN

Sequence 5762

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGANACAGGGTCTCACTCTGTCACCCAGGCTGG
AGTGCAGTGGCGCAATCTCAGCTCACTGCAGCCTCTGCCTCCCAGGTTCAAGCGGTTCTC
CTGCCTCAGTCTCCCGAGTAGCTGGGATTACACCACCACACCTGGCTAATTTTTGTATTT
TTGGTATANACGGGTTTTTCGCCATGTTGGCCAGGCTGGTGTCAACTCCTGATCTCAAGTG
ATCTGCCAGCCTCGGCCTCCCAAAGTGCTATTACAGGCGTGAGCCACCACGCCTGGCTTA
GGCTGCTTAAATATTCTTTCTTAGGTATCCTTGGTTTTGGAAAAAAAAGAATAACAGAA
AACTAAAAATTCCCAGTGGCAGTCTCTGTATCACTGGAATTTAACTTTTTGTTTGT

Sequence 5763

TTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTT
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGTGGCATAAGCATTCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTATATATTTGGATTT
TTTCCAATTCATCATTATTATGAATAATGGTGTATCTCAGTGGTTATTACTTTGCACTGC

Table 1

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ATTTCTTATGAAAGTATTGAGTAAAAGGAAGTAAAGCCCTCTCANAGTGTTTTGNAGGCT
GTCACATTTNACTCCATAATGTCCTAGTGTTGTTGCCACCAGTGATATATGAAGGTACCC
ACTGAAATGTCACACCTTTTTTGGNTTTCCTTTTTTAAAAATNAAAAATAAAAAA

Sequence 5764

CTCCACCGCGGTGGCCGGCCCGCTTTTTTTTTTTTTTTTTTNATNATANATAGGANGAAGGG
ATTTCAACTCTTTGTNGGCCNAGCCTGGAAGTGGCAATTGGCAATGATNNTNAAGCTTCA
CCANAACCTTNACCTCCCAGGTTTCAAGCCGCTTCTCCTGCCTNGGCCCTCCGGAGATA
GCTGGGAATTACAAGGCATTGCACTACACAACGCCNGGCTAATTTTGAATTTTTTTAAGT
AGAAGACCGGGGGTNTNCATACTATGTTTGGGGTAAAGGGCTGGGGTCTTCGNAANCCTT
CTCCCGGAACCTTTATAAGGGTTNNAAATCCAACACCCGGCTCTTTAAATTTTAAATTTT
CNTAAGNAAAAGTTANNTNNTTTCGGAGGGGGGNGNGNCCCCGGGTAAACNCCAAGACTT
TTTTGGTTTCCCCTTTTTTAAGATGGAGGGGGT

Sequence 5765

NCGCTTTTTTTTTTTTTTTTTTGGGTTCATAAAAANTTTATTTNAAAAAANCNGGTAGTGGG
GCTGGGANTGGGCNAACCTTTNGAGGAATAGCCATTTCTTTATAAATTCTGAACATGAGTA
CTTTAAAAAAAATGTAGCAAAATATCTTCTACTAATTATGTGGGTTCATCTTTTCCACCC
TAGTTGTATCATATTTTTGAATGGAACAGNAATTTCTGTTTTTTTGAATTTTTTTTTTAAA
AAATAGGTAANACAAGGATTTGGCTGATTCCCTTAATAACCCTGGCCTGGGGTTTTATTT
TCCCCATTCTTGGTCTTTTCAGTATGGATCTAGGGCCTTCTGGGAAAGTTTGAATGGGGGG
GAGNCGTTCTAAACAAAAATAGGCTACCCNTAATAACCCTAGGACCAGGATGACATNATT
NCTTNCCCCGTGTGGCCAGGGTAGGGACCANTTNAGAATGGGNTTTCCTCTAGGGGGAAAA

Sequence 5766

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTNTAAANNNTTNTTNAAAAAAACCNNNGGGCCNACTTTNTTTTATTTNA
TCNTTTAAGGGGCCAATTTTTTAAAAAGNAAAGGGGAATGAANCCNTTNTANTTAAGATC
CNTNNGNCNGANCTTTTAANGTAAAAAATAAAAAA

Sequence 5767

GCGAAATTGGGAGACTCCACCGCCGGGTGGGGCCGGGCCGCTTTTTTTTTTTTTTTTTTAT
TATAAANANNNGGGGGGGGGGAAAGGAATGGAAAAAATAATTTTTCANCTTCAAAGTT
ATTTTTTGGGTACCTTTTTTAAAAANAATTTCCAAATNGCCTTGGNGAACAACTTATGAA
CCCCAGGCCTTATTAAACAATTTTTTTCAGGAAATAGGAAGGNTGGGACTTTNAATTNGC
CNGTTGGAAAAAATNGNATTCAACCAATTANCCANAATTGGAAAAANAAGGGGTTTTTTT
ANANAAAAAATTAACAGNTANTGGNATCAANTAANAANCCTTTTGNTTATCCAAGNAT
TTTGNTAAAGTAAAAANAATTTTTTAAAAAATAAANCCTTGGGAANTTATTTAAAAAAC
CTTAAAAAATTTCCAATTT

Sequence 5768

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTT
TGANAGANACAGGGTCTCACCCAGGCTGGCGNGCAGNGGTACAATCACGGCTTACGCATT
CTNGACCTCCCAGGCTCAGGCNACCCTATNAGCTCANCTCCCAAGTAGTGGGAATTACA
NGCACGNGCCACCATAACCNTGGCTTATTNTNATAGAGATGGGGNTTTCCTGNGNTTCNA
AAAANTAANACCNAGGGCTTGNAATTCNTGGGACATNAACCTCTTTAAANACTCCTGCC
CAGCCTATAATTTAAATTTCTAGGAAAGNNACCNCTCNAGGGGG

Sequence 5769

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTNGANACGGANTCTCNCTCTGTCNCCCANGCTGGANTGCAANGGC
GGNANCTCGGCTNANTGCAAGCTCCNCCTCCCGGGTTCACNCCANTCTCCTGCCTAAACC
TCCCAAAAANCNGGNACTANAAGGCCCCCGTAAANNAACCCCCGGAAAAATTTTGAAT
TTAAAAAATAAANGGNGGNTTCANCCNCCATTAAACCNGNNANGNNTCTTTGATNT
AACTTANACCAACCCTAAAANTNGAACACAACCCTTNAACNCNANCCTTNAACANATCA
CCAAAAAGTNCTNTAGGGAAATAACAGAGCANTGNANACCAANTTGCAANCCCAACNCAT
TNTTNTTCNTTTTTTAATTA

Sequence 5770

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTGGGAAGGGAGTGGTTTAGGGAAGACTCGAAAGTGACAATGGAGCTATCAA
GTTCAAGAAGGAGTTANTAGGGGAGGAGGCTGCAAGAANAANTGCACNCCTGGAGGCAAG
AACAGCATGTNTCCCCNNAANTACANANGNCNCCCCGGCCCCANGCTNGATGAAAAAAG

Table 1

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GGNCAANCNAAAAAGGNAATTGAACAANGANTACCCCCAAACACTAANACCTNNAAN
NTNCCCCCTGANCAACCCAGATNNNCACCAACCCCCCNCTTAAANANCCCTACCCAAANC
GNGGACNNNGANGAATAACNANGNTGNTGAAGCNCACCCGTGCCCGGCCCTGAACTTTTT
GTAAAGGCAANAGAACCACTGGGAGNGGAGAAGGAACAATTGACNTCCCCGCCTTAATTA
AATCTAAAANTACNCTCAAGGGGGGGC

Sequence 5771

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCAAGAGAAGATGCCATTTTCATCACAACATG
TTTACATACTCAAGGTAGGAACCTTNAACANTTTGCTCCTTNTGACCATAACCATTTACAT
AAACATATGCAGGGCTCCCCTGGCCTGCCGGCAGCTATCCACACCAAAAAGAGGAAAAGG
TAGACTGGNAANACTCAGGCTTNCAAGTTATT

Sequence 5772

ATTGGAGCCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTGTTTTTTTTTTTTGGGATGCT
CAACCTATAAGTACCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTNGCTGATTATAGC
AGNGACATAGTTGCATNCTANAGACCTTACAAAANGCANAAAATTTCAAGAAAACGTTT
AAANNNGCTCATAGTGAAACATGANAGGNGACCACTCTTAATATTNTGNGGCATAAGCA
TTCCAGNNTTTTATCTTCCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATT

Sequence 5773

GCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANANTNGGC
CCNNNNCCNAAGAGAAAAAATNTNTNANTTTNGNAAANCCCCCCCCCNNCNNA
AAAAAANTTNCCCCCCCCCCCCCNAAAANNNAAAAAAAGGCCCCCCCCCC
CCCCCNANNTTTTTTTTTTNAAAAAANANAAAAANTNGGGGGNGGGGNA
AAAAAANCTNAAAAAANNNNNCCCCCNAAAANNAAAATNTNAAAAANA
AAAGGGNNCCCCCNCCCCCNAAAAAATTTNAAAGGGGGGNC
CCCCAAAAAANTTTCCNTTNACCGGGGAAAAACCCCTTTAAAAA
A

Sequence 5774

CCTCCACGCGGTGGCGGCCGCTTTTTTTTTTNTTTTTTTTTTNTTTTTTTTTTTTTT
TTTNTTTTTNNNTTNTTNTTTTTNTTTTTTTTTTTNAAAAAANNCNCCTTT
NNTTATANTGAAAGCNANCNAAAAAANAAAAANAAAAANGGANGNNCAAAANAA
AAAAAANANACTNTTAANAAAAACNCCCCCCCCCNCCCNCTTNTTNGAGGA
GGGGNAAAAAACNNAAAAAANGANNAACTTNTNAAAAAAC
CCCCCCCCNNAAAAANCCCCCCCCCNAAAAAAGGGGGG
GGNNCCCCCCCCCNNTTTTTTTNAAAAAANCCCCCCCCNA

Sequence 5775

TAGGGGGGGGGGGGGGGGGNNNNANAGAGAAAAAANCCNCNTCTTTTTTNANNC
CCCCCCCCCCCCCANAAAAAANCCCCNNCCCCCNCGGGGGGNATNNCCCCCN
NGNGGNGGNGGGGGGGGGNTTTTTTTTTTNTTNGGGGGGGGGGGGGGGGGGGNN
ANNNNNNNCCCCCCCCCNCCCCCCCCNNGNAGGGGGGGGGCCCCGGCCTTTCTTNTTTT
TTTTTTTTTTTTTT

Sequence 5776

CTCCACGCGGTGGCGGCCGCTTNATATNNCTGANTCATNTGTTTGAGGAGCGGTCAGTT
GACNCNATNGANCGGCAAGGGATCCCTTACACCTGAGACGAACCTACAGAACAGCACC
TACCAGAGGTGGAAGTCCAAGTCANACGCCAGAAGGACTGCCTTCACTTGAGCAACCAAN
GAGTGTCACCTGTACCCCCACGCTTNTTCATCATTANCAAGTACCNGGNGGTGGATTTT
CNATGCTNGAACTGAGGCAGGCATTCTTTANCTGAAACACCAAGAGGTGGTTAAAGCCA
TATTAGGAGTAGCGAGGAATCTGATTCCAAACAAAAACCAGGCTCCATCTACTCTTTGA
AGCTTCTGCCCAACTTGGATTGTTTCTTAGGAGAACCCGCGTTTANTTTAATTCTAGAAA
NTAACTCTNCNA

Sequence 5777

CGCGGTGGCGGCCGCTTTTTTTNTATTTTTTTTTTTTTTTNAGAAGGCGGGGATAAAGT
TAAGGTGTAGAGTATTTATTAGGTTATTTGGCTTGTTTGTTTGTTTATGCAAATCATGTT
AGGTTGTTATCAGCTTAAATAATGGGTATAAGATAGTATGTNCTGGCCTCATGGNAAC
CTCAAACCAAAATACATACAATGGATACACGAAAGATAAAAAGCAAGAACTAAATCATG
TCTTCAGAGAAAATCATCTTCACTAAAAGGAAGACAGAAAGGAAAGAAATAAGGAAGAGA
AGATCACAAACAACTGGAAAAGAAATAACAAAACGGCAGGAGNAAATCCNTATTTATGA
ACAATAATATGGAANGGAAANCACTAAANCNCCAAACAAACACAGACNGGCTGAANGA
ATNNAAAAAAACAACAAANCNGNGGCCCCCAAAAACNNCCCNANCCCAAAANAC

Table 1

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NCNCCCCAACCNAAAAAAAAAGGGAGAAAAAAAAAAAAAAAAANNCANNCNGGGGAAACCC
AAAAAAACCNAAAAANCCNNCCCCCCCCACCCAAAAAAAAAAAAAAAAANNCAGGGCCANGGA
AGGGNAAAAAAAAAA

Sequence 5778

TCCAACGCGGTGGCGGCCGCTTTTTTTTTTTNTTTTTTTTTTTTTTTTAAAGNNGGNGGNGNN
TTTTTTTTTAAAAAAATTNNAAAAAAANTTTNANNNAAAAAAANAAAAANNA
AAAAGAAAANTTTTTAAAAAAANGGGGGGNNANGNAAANAAACANTTNAAAAAA
AAAAAAAAGGGGGGAAAAACCCCCAAAAAAANNNNAANAAAA
AAATNGGGAAAAAACCCNAAAAANAAAAAGGNAAAAAGGGTTTNAAAAAAA
NNACNAAAAANCCCCTTTAAAAAAANGAANAGGGNAAAAANGGGAAA
AANTTNGAANGGGNTTNTNAAAAAANTAAAAAGNNAAATTTGNNAAAAAAGCCCN
TNAANAAAAANNTAAANNNNNANAAAAANNNNNNNNNANANNNNNNNAANNNNNA
NNANNNNTTNNANNNNTNAAAAANNNAAAAAAANNGANGNNNNNAAA
AAAAAA

Sequence 5779

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTGAATATGCCACCCATT
TCAGGTTGAGCCACGGATAAGGAGGGCTTANCTCATGTCTCCTGTGGGAATTGAGGCATC
TCAGGAAACAGTATANAGTTGGTACAGTTAGAATGANAANAAGCCTGGGGAAAGAAACCA
AGAGTGANAATGCGTGGCTATTTTACTTAGCTGGAGCAACCCTCTCATAACAGGCTGG
GAAGTGGACCCGCGTTAATTAACGCGGGGGAAAT

Sequence 5780

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTNGGACCAGAGAGGCCCA
AACTANCANCCTGTCTNCTNAGNNGCCNAGCATCCCTTCATCATTTTGTGCCCCTC
TATGGGCTANTTNAGGTCTNANAGGCATANNTNAAATNNTNATTGNTATTTATTTAT
TCTAGAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTNTTGAACCTCTGGCCNGAANCAA
TCCNCTGCANCAGCCTCCNAAAGTGCTGGGATTACAGGCATNAGCCACCACNTTTGGTC
ANACAGGCATANTTTTACAAATATGTGGGTGGATAAATGCTGTCCAGACTTACTTCATNA
CTTTNTATAAATTGAATGCTTTTGGTTTGGAATA

Sequence 5781

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTNTNTTTTTTTCTGGCNCTAAAGGGGNANAGGGGGTGCTNTAGGGTAAATA
CNGNCCNATTTCAAANATTTTA

Sequence 5782

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTT
TTTTTTTTTTGGGAATNATTATTTAATGAGAAAAAATCCACGTGTNTACAACATTTCAA
AACANAAGTTAAAT

Sequence 5783

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTGGAGGAAGGCACCTA
CAAAACGAAAGTGCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAAAGATGAGGAACTGAANCTCAGG
GNGGNTANGAACTTATCCAAAGCCTNTTAANAGGCTATTNTTANTTCANACTGGGCTA
ACANTCTGTNACAACCCCAAA

Sequence 5784

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTNACATTAAACTCTGATTTATTGNGGGGTAAAGCATGTTATAGTGTCCA
GCTTCACTTTTTTCTGAATGGCTATCCAGTTGTCCCAANANCATTTGTTGAANAATTCA
TTTTCCCCCATTTGAAATGACACCTTTTNGTATACTAAAGTCCCAAGTNTTTAGTTATA
AAACAGTNNTAAACCCTTGAAACAGGCATTTTCTAAAATACATTTTGTTTAANTAANAC
AGTTTTCCCCNCGTTAATTAATTCTANAAGTACTCTNGAGGGGGGGCCCGG

Sequence 5785

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAANCCATTTATA
TNAATGNCCAAAANAGGGAAACCTNTTTAAANNACAAAACCCAAANTNNNTCANCA
NTTNCCANGGGAGGANNAAAAANGGAGGGGGAAATTANTNCTTTACANGGGNANNANAA
AATTTTTNTCNAACCTNNANAAANGNGGNGCCNANANAANTTTCTTGATGTANNAAAA
GCCCTNATTGTTTNCNTTNAAGGGGANTTGAATTTTAGGGTTTTTNGAATTTNATTCTC
AATTAAAAAAACC

Table 1

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Sequence 5786

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGCAAACCTCCC
TACAGCCGAGCCCCGTTTCGGNGCCTTTCTTTTTTTTTTTCTTTAATGGAGTGAAATCTAC
TTTNCNCAGGAAGCCTGCAAATCACATTT

Sequence 5787

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTGAANTANAAAGCTACTT
TTAANNCTTNGGGGNGANCCCCNNANNAAAAAAACNCTGGGAAGGGGAAACCCCC

Sequence 5788

CGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGNGAATGAATTTAATATA
ATCTCTATAAAAACCTAANNAGGNCAGTTTTTNACAGAAATANAAATTATTTTTTTTTTT
TTATTTTTTTTANATGGAGTCTCACTNTATTGCCAGGCTGGAGTGCAGTGGNTGTANTGG
CCTGATNTNGGCTNACTGCAACCTCTGCCTCCCGGATTCAAGTGATTTNTNCTGCCTCAGC
CTCCCGAGCAGCTGGGAANACAGGCACCCCGCCTTAATTAATTTTAGAAGTACTNNTNNA
GGGGGGGGGGC

Sequence 5789

AAACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTT
TTTTTTTTTTTGAGGNGAATGAATTTAATATAATCTCTATAAAAACCTAATCACACAGT
TTTTTACAGAAATATANTTTATTTTTTTTTTTTTTATTTTTTTTANATGGAGTCTCACTCTA
TTGCCAGGCTGGAGTGCAGTGGCTGTAGTGGCCTGATCTCGGCTCACTGCAACCTCTGCC
TCCCGGATTCAAGATGATTCTCCTGCCTCAGCCTCCCGAGCAGCTGGGAATACAGGCNCC
CGCCTTAATTAATTCTAGAAGTACT

Sequence 5790

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANGGGGNCANCCTATTTTNAGGGNGC
TTTCATTATTTTATTTTTTANACAAANNCANACNCNTNGCTANAANCAANCAAAAATTT

Sequence 5791

TTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATNCCCAAAGGCTCTATTTT
AGTANAATTTATTGGTTTGCTGATTATAGCAGGGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCATGAAATTTTCANGAAAAACATTTAAATTGTNGCTCATAGTTGAAACCTGAAN
AGGNGACCCACCTCTTTAATAATTTTTGNGGGGGCATANAGNCATTTNCNAGNNCCCTT
TTTTTANTCCTTNTCNTTCAAAAGGTTTTCCACCAATAAAGACCTTTTTCNTTTCANAGA
GGAGGCCANTTTTAAAAAATTACCTTTTTTTCCANTAAANGCACCTNNGNATTTTTTTTT
TTTTGGNTGGNACCCCNCCNACTNNAGNGGAATCCCCTCAATTTTAATTNAATGTGGGAA
GTNANAATTANCCCCCAGTTAAANTTTNTNACCGCNTTAAAAACCCCCCAATTTTTTTTTN
TNAATTNAATAAATTTTTTNGGGG

Sequence 5792

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGGGGAGAGAATCATTNNTGCAGGCTGCANANAAAGCACTTGCTAGANAAATTT
TCATAACTATAAGGGANCAAAAACTAATAGCCAAGACCATGGGATAAAGACCTGGAAAG
CATTTATCCTATTTATTCATTTTCGNCGCTCATTTATTTTTTTGTTTATTTNATTGGAATA
TAAGCTCTATAAAATAAAATGGACCTTGCTGCTCTTGCCGTATCACTGTATGTCAAGAAG
TTATCATACAGTTTGAGGCANAGTGGGCACTAAACAAATGTTTATTTTGATGAGGAAAAG
ATGGATAAATTGANTGACNAAGGTTGTGACATATTTCTTGTCACAAAAAAATGA

Sequence 5793

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCACAACCTATAANA
CCNAAAGGCTCTATTTAANGAGAANATANNGGNTAGNNGNTTATACCAGANACNTANNTG
CATTCNACAGACCTTACAAANTGCANAAAANNNAAGAAAAACNTTNAAATNNNGCTCAN
AAGGAAACTGGAAAGGTGACCNCTCNATAATTTATGGGGCATAACCATTCATGTCTT
TNATCTTTCTCAAAGTTTCACATAACCTTTCTCAAAGGCCATATAAATACTTTTCCATAA
NCCTGATTTTTTGNGACCNCATNGTATCNTATTATATTTGATAATACCATAATTT

Sequence 5794

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTNATNACCCNCTCACAGGACCAACTTTNATTTAATTAAT
TCATTAANGGNCAAATTTTNAAGNAAAGGGAANGAANCCATTNGTAATTAAATNCAT
ANNCANANCTTNAANGNAAAAAA

Table 1

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Sequence 5795

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAGGAAGGCACCTA
CAAAACGAAAGTGCTTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGAACTGAAGCTNAGG
GGAGGGCTTTGGGAAAACCTTATCCAAAGCCCTNTTTAAGAGGNTTNTNTTAGTCANNAC
TTGGGCTAACANGCGTGTAACAACCCAGAAATTTAAATGGCTTAACACATTAGGAGTTTA
TTTGTTATTGCCANAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTCA
GGGACCCAGGCTCCTTCC

Sequence 5796

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTAGNACAAAAATNTGGGTTTTATTTATTCATTTGTAACTCAAGCCAGGNC
TCTATTCCACTTTTTCCAATTATTTGCTTTTGANAGTCTCAGGATTATCCTTCCTTCCTC
TCCTTCCACATTTTCTCCCCTGNCCCTTNNCTGGGCANGCTTCTCTAGTCCCNACGG
TCTTTGTTTAAACACAATGCGGGNTTGGANATTAACCTTNACTCTCTCTTTCANAAAAA
AATGCC

Sequence 5797

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTNANGNCTGNTCTTACNTATTTTTTTTTTAACTTTTATTTTCAGTAGNGTTNGGGGA
ACAAGTAAGTGTTTGGTTGCATGG

Sequence 5798

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTGCAGACGGAGATNNGCTCTGNCACCCA
GGCTGGAGTGCAATGGCATGATCTTGGCTCACTGCAACCTCCACGTCCCGGGTACAAGCG
ATTCTCNTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGTGTGCAACCACATCCAGG
NAATNTTGNATTTTTAGTAGAGANGGGATTNCACCATGTTGGCCAGGCTGGNCTTGAAC
CCTGACCTTGTGATCTGCCTGNCCTTGGCTNCAAAGTGCTGGGATTATAGGCATGAGCCA
CCGCGCCCAGCTAGAAAATACATTTTTGAAGCAATAATAAAGATGTGAACCAAATTTAGT
GTTCTCAACATGTCAAGCCTTACCGACAATGCAAAGCAATAGAACTCAAAGCAATAGAA
ACTGCTGGNGAGATATAACCTGGTTCAACCCGGTGGAAATACTTTGGCATTAAACATGCC
AAACTAAAAGTAAATACCCACATAATCTACATTCTGGCAATTTCAACCACTAGGCATTTAC
CTTAAAAAAATCTCAAACATATGCCCAAAGATNTGTAAAAAGAATGCTTATNGGAACA
CTATTCTTNACANGGAAAAATCC

Sequence 5799

CGCTTTTTTTTTTTTTTTTTTTTTNTNNTTTTTGGGGTCACATGCGCATTTATTATTGTCTG
GAACATCAAGGCCTTTCCTCCCCTGGCAGTGGCACAAGGGAGGGCCAACNTNAAGAGGC
GGCAGCTTGGCACCACAGCAGGCCCATGGGGTGGGCAGGGTCATGGGCGGCANAAACA
GCGCCTTCAGCTTGCCTGACAGGCTGGCGATCTCAGGATCCTGGGCTTCGTAGGGACTTG
ACCAAGCGAGCAAACTTAAGGACACCTTCCCGTCGCAACTGAACCATAGCTTTGATAAC
CCTCTGCTGGATCTGGCGTGGCCACGGGCAGNACGAATTGCAGCATCTTACCCATGTCTG
TGCAGGCGTTATCCCGAGCCTNGTCCATGCCGCACTGCATTTNTTCGGGGCGGANAAACG
CCTGGATCACCTCCGCGAGGGACACCTTTGCTTGCTTCAAGCGCTCAAANGCCNNCCGT
TGGNGTCAAGGCGGACNCCATANGGCGGTTTTGAAAACNTTAGGTTCANCGGGAGGTAA
AATGGGAAAANTCACGAATAAANNAGCCACGTCTAAAACCGTTCCCCCGGGTTAATTA
ATTNTTANAAATNNTTTTTTAAGGGGGG

Sequence 5800

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGNCACCT
ACNNAACGAAAGTGCTTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTC
AGTCATTTTCAGAAAGGTTTTTCCAATTATCATTTTAGAGATGAGGAACTGAACCTCAG
GGAGGCTAGGAACTTATCCAAAGCCTTTAANAAGCTATGTTAAGTCANACTGGGCTAA
CAGCTGTAACAACCCCAAGAATTTAAATGGCTTNACACATTAGGGAGTTTATTTTGTTAT
TGCCATAACAATTCAAGGGTGGTNTTTTTTGGCAANGTANTNTACACAGTGATTTAAGGG
ANCCAGGCTCCTTCCCTTTGGGG

Sequence 5801

GACTACTATAGGGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCTTTTTTTTTTTTTTT
TTTTTTTTTTNGGGAAGGAGTTTCACTCCTGTTGCCAAGGCTGGAGTGCAATGGCGCAAT
TAGGCTCACTGCAACCTCCTCTTCCCGGGCTCAAGTGATTCTCCTGCCTCAGCCTCCCGA
GTAGCTGGGATTACAGGTACCCACCACCATGCCAGCTAATTTTTTGTATTTTAAATAGA
GATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATCCACC

Table 1

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TGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCATGGTACCCAACCTTCCTC
ANCATTTTTTTGTCTGTCCCCACACACANGCTNANCAACCAAAGAAAGCCAAGGGCATATA
GGCAGGGCAACAACATCTGTGCACCTTGCGGGCTGCCTGCTAATTTTCTTANAAACATAT
TTTTTTTAAACATTCCTTAAAAAAA

Sequence 5802

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGATTTTCACTC
TTGTTGCCAGGCTGGAGTGCAATGGGCGGGGGTCTTGGCTCACCGCAACCTCTGCCTCC
CTGGTTCAAGCAATTCTTCTCCTCACCTCCCGAGTAGCTGGGATTACAGGCACCTGCCAC
CACGCCCTAGCTAATTTTTGTATTTTGTAGTAGAGACAGGGTCTCACTGACTTCAGGTGAC
GCCCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCACGCCCAGCTGGA
ACCATTATAACTTGTAACAAAATATAGAATATAAATTATTGGTTTATNGGGGAGTTCAAA
TATGAATTTTAATAAAACCAATCTTTTACAAGTTGAATATAACATTTCTTACTGTGCCC
ATTTAGACAGGGGTCCATCCAAAGGGCATTTTATCTGATTTTCTGAAAGATCATTAAGTA
TCTAATTTTAGATAACCCGCGTTAATTAATTCTAGAAGTACTCTCGAGGGGGGGC

Sequence 5803

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTANATGGAGTCTTA
CTCCGTCACCCAGGCTGGAGTGTGGTGGTGTGATCTCANCTCACAGCAACCTGACCTNAN
GTGATTCACCCGCTCTGTCTCCCAAANTGCTGGGATTACAGGCGTGAGCCACTGNGCCC
GGCGTNTTTGAATTTTTTAACTGAAGTTNAATTGCCTTTGANTTTGATCATTNACTATT
TGGCATTGTGNATTTCTTTTGTTAATTATCTGCTCAAGCTCTAATTTTATAANTGGAAATT
TAATGGATTAACATATNACACCCACTATCACCCGCNTTAATTAATTCTAGAAGTACTCTN
GAGGGGGGGCCCGG

Sequence 5804

CGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGACTNACTTTGTCNCCANGCTGNAGTGT
GGAGTGCAGTGNCACAATCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCNATTC
TCCTGCTTCAGCCTCCTAAGTAGCTGGGATTACAGGCACACCCACCACCCGNNTAAN
TTTTATATTTTANAGTAGAANTGGGGNCCACCATGTTGGCCAGGCTGGTCTAGAANTNNT
GACCTGGNGANCCACCTGCCTCGGGTTCCCAAAGTGANTCACTGNACCCAGCCTTGCT
NAATNNTTTTAAACTTTTTTTTTTCTGACATCTTGAGTTAAAAGNCTTTGGNTATTCTTT
GAGACNGGATCTGGCTCTTTTACCCAACCTGGAGNGCAATGGNTCAAATCACAGGTANNT
GTCCCTTNGNCTTCTGGGCTTCNGCCCAAACCTCACAGTAACANACACTGTTGGGAAAAC
ACACCCATTTNACTTTTTTTA

Sequence 5805

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNGGGGTCTGTATTTCTTA
TAAAATGATTGGCTAAGACCAAAGATCTTGTCCCTGNNGNCTCTATTGTATTCCTTGT
TCCTAAAAGGTTCTTGGGACATACAGTTCAAAAATATATATCTGATGTACNAATGACTGA
ATAAGTGAATGTGACCATAACGCAGAAATTCCTAAGAAATGCTTTGTCTGATAGGTCTC
CAGTCTCTGCAGAGGACAAANAAAAATATTCTAAGGTCCCAAAAAGTC

Sequence 5806

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGAGNACTATGATAGG
TGAAATGGTATGACTATAAAAAGGATTTGTTTCTTTTGTCTCCTGGAATGACATGATGC
CTTTCTAGANAAAGAAAAATTGCAGGCTACAGGAAAATGATAAAAACACTGGATTTCATT
TANACTATTCGATTTAAGGAAGGTCAACCACTTNTTTAACATCAAGCTAAAAGTGGGGGA
AAGTCTCANTCTCCAGGTAGGTCTNCTCTCACACTGTCTGGGTGGCANGCGCTGTTTAT
ACATGCCCCTATCGCTCTGGCTTGCTGTANATCATNTGGCCGACGGGACATCCCAGTA
AATGCCATGTGCCAATCAGTCCCGGCTGACATTCANTAACTTTTTTCCAGGACTTCACC
CACTGTACCAAAGGCCTGACCACCTTAAAATTATAGTCTGGGGAGTTAACTTTGAG
CCTGCTGTACAAAATTCAAANGCACTGGTGTGGCTTTGNGTAAATGTTTTTAANATGAAA
GCCCTTGGACAGGATCTTTTAACCCCAAAAAACCAATGGTCAAACCATTTTGTGAGGGAN
NAAATTNTNCAATGNAAATTTTTTACTTGACCCAACTTGCTTTTTTTTATTGGATCCCC
CCATTNNACCCAAGCTTTTTNTCCGTTCTGGACCCCTTTTATCCACTTGNNNACCCNTGG
TGGGGGGCAATNTTGGACTGTCAANTTCCCTTNAACCCAAGTTANCCAAANACCTCTGGA
AGGNTTTGGGCAGNNANAACCTTTTATTTTTT

Sequence 5807

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAGATGAAGAAATT
TCACTCAAGTATTTTGTACTTTAAGATTCAATGCTGGACACTAGACCAGCTATAACATT
TTCAGATAGAGTGACTTCATGCGTGAAATGATCACATACAATGAAGAGGTTTTAAAAAAT

Table 1

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ACAGATGACATAACTTGTTCAGTTGAAGAAAATTAAAATACTGATATAAACTAAATCATT
CTCCTCTTCATTTTAGGGGGATTTTCTCTGCAATTGTACTGATTTATGACTAGAAAGCT
GAAGACTGATTTGAGCCTCTTTAGCAATACTCTATTTACCATTATCTTCCAAAGAATT
ATGGCTATTTTATTTCTTCCAATGAAGCTGGAAAATTATAATATGCCAGCAGATCAGTNG
AAATGTAAAAATATTAGTAGTTACCCTT

Sequence 5808

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTAANGATNGNTTTCN
TTTAATNTNAAAGAGATAAGTGGACTAACGNGGATAAAGGGCTCCATCTTGGACAANTTG
ATCAGTCTTTTCTTCTGTGCTGAACANGGCTGCCAANAACANGAAATTCAACNCCATTT
ACAAAGCTNTCTTGNCTTACTCTCANANAAAGCCATNACTGTTTCACATCATTCAAGANGC
TGNCAAGCTNACACCTTTNTNAAATAAGNGNTANCTTTTTTGGG

Sequence 5809

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTACTNGAATTGTTGTTATAG
TGCTTCCGTTATTTATTTTATTTTATTATACTTTAAGTTTATAGGGTACATGTGCA
CAACGTGCAGGTTTGCTACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTA
CTCGTNATTTATATTAGGTATATATACGTGTTTATTGTACCCTTATCGACTTTGCAGNAT
GCTTATCCATCTAACTATTNATCTTTATTTGCCTTCGTTTTNGAGTTCCCTTATTCATC
CTAAAACAAAATATAATGCCTGACTNATAGTCANACTTNACAGTATTTTTAAATGAATTA
CATTGCATTGGGGAAATATAAATAGTAATGNCCTTTTATAGAGGAAGNCTAAAAAAAT
TCTTGGGTGAAANTNGGATAATNCAAACATT

Sequence 5810

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNGACCANAGAGGCCCC
AACTANCAGCCTGTCCTCCTCAGTAGCCCCAGCATCCCTTNATNATTTTGTGCCCCTN
TATGGGCCCTAGTTNAGGTCTGAGAGGCATANNTTAAATTTTATTGNTATTTATTTAT
TNTANAGATAAGGTCTTGCTATGTTTCCAGGCTGGTNTTGAACNTCTGGCCTCAANCAA
TCCTTCTGCANNANCCTCCCAAAGTGCTGGGATTACAGGCATGANCCACCACGTTTGGTC
ANACAAGGCATAGTTTTTACAAATATGNGGGNGGATAAATGCTGTCCAGTCTTTACTTTC
ATNAACTTNTATCAATTGAATGCTTTTGGT

Sequence 5811

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANAAGGAGTNTCGCT
NTGTGGTCCAGGCTGGAGTGCAGTGGTGCAATCTCAGCTCAATGCAAGCTCCGCCCTCTG
GGTTCACACCATCTNTTGTCTCAGCCTCCCGAGTAGCTGANATTACAGCCACCTGCCAC
CACGCCCGGCTAATTTTTGTATTTTGTAGTANANATGGGGTTTCACCGTGTNAGTCAAGA
TGATCTCGATCTTCTGACCTNGTGATCCACCCGCCTNANCCTCCCAAAGTGCTGGGATTA
CAGGCGNGAGCCACCGCACCCGGCCTTTCCTGTCAATTTTAAATGGATATAATGGGGAGG
TTATTCAAGGAAACNCTGCCTTCTTAAAAAATNTNCCNNTTCCCCTGNANTGNGTNTTAA
AAACCTTTTTNAAATAANNTGTTTATTNAAAAACAAANATATTTTCTAAAGTANTNTGGA
AGCTCCCCAANGAANATNCCCCAATTTT

Sequence 5812

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTGANACGGAGTCTNGCTCTNTCACCCGGGGCTGGAGTGCAGTGGCGTG
ATCTCAGCTCACTGCCAGCTCCGCCCTCCGGGTTTCATGCCATTCTNTTGCCTNAGCCTCC
CGAGTAGCTGGGGCTACAGGCGCCTGCCACCACGCCCCGGCTAATTTTTTGTATTTTGTAGT
ANANACGANATTTACCGTGTANCAGGATGGTCTCAATCTCCTGACCTCGTGATCCACC
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGNGANCCACCGCNTNCGGCCTGGACC
CTTTTAATTAANAAATTTTAAAGCAAACTGTGGGGCGATTTTGCTGTGCATTAAAAGAA
TTGCTATAAAAGATAGAAATTCTGGGACTTAAGTGGAAAAAAGTNGATTNTTTAAGGGC
CCTTTGGTNCCTTAAAAAAAT

Sequence 5813

GAANATGGAATCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACT
GGAAGCTCTGCCTCCCAGGTTTACACCATCTCCTGCCTCAGCCTCTCAAGCAGCTGGGA
CTACAGGCGCCAGCCGCCATGCCTGGCTAATTTTTTTTGGTATTTTTTAGTACANATGGG
GTTTCACCGTGTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCACCTTCAG
CCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCGGCCGATTTCACCTTTCA
ATGGCAATTACTATAANACAGGAAAGTTATTTATTTTATATATTNACCTAATTTTAAGT
TACCTTATACAACCCTCATTAATAGTCTGTTANAACCTANAATTTAACTCTATGTGAATA
TGGACCTTATTAAACAATGTAT

Table 1

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Sequence 5814

ACAGAGTTTTGCTCTTGTCACCCAGGCTGGAGTACAATGGCACAATCGCGGCTCACTGCA
ACCTCCACCTCCCGGGTTCAAGTGATTCTCCTGCCTCGGCCTCCTGAGTAGCTGGGATTA
CAGGCACCTGCCACCATGCCTGGCTGTTTTTTCATATTTTGTAGTANAGACGGGGTTTCACC
ATGTTGGCCAGGCTGGTCTTGAGCTCGCGACCTCAGGTGATTCGCCCACCTCAGCCTCCC
AAAGTATTGGGATTACAGATGTGAGCCACTGTGCCCGGCACTTTTCTGCTTTTAAATACA
ATGATTTTANAAAGTCTGTATATGAACTTTGGGCTTGTACCTANATATCCCAGTGTGTGT
AGGGAGCCCTGTATATCTGCAAGGGGATCCATTAGACCAAGGATATTAGATCCAGCACTT
CTCCTTTTTTAATGCATGTCATAAGCACATGATTTTATATCATGTCANAAAAAGGCTGTTG
ATATAAAGGAAGAGAACAAGAATGAGAAGAAGTATNTCCCGCGTTAATTAATTCTAGAA
GTACTCTCGAGGGGGGGCCCGGA

Sequence 5815

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACGGAGTCTTGCTCTGTTGCCCANACTANAGC
ACAGNGGTGCGATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCCTG
CCTCAGCCTCATGAGTAGCTGGGATGACAGGCGCCACCACCACGCCGTCTAATTTTTGT
ATTTTGTAGTANAGACTGGGTTTCACCATCTTGGCCAGGCTGGTCTCGAACTCCTGACCTC
AGGTGATCCGCCTGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTGC
ATGGCCAGCTTGACAACTTTCTAATTGACTGGCTCCTGTGCATTGCTCATCCTTCTCTC
TCATTTGTTAGNGGCTAGGAAAAAGAAAGAGTTTGTATCTGAGAAATGTGAGTCCTTT
TAAAGTCTCAGGATAACAGAGGCATTTAAATGCAACAGCAGTCTCTTCTCACTCTTCCT
GGCACTAAATAATGACCTCTTGAAGCCACTTGCTATATGGGCTTTACACTGACTGAAGCC
AAGTAACCATAAAATGCCATATGCTGGACACCATAACCCATACCCTATAGTTCAGNAATC
TATAGCCAAACCCTATCCA

Sequence 5816

TTTTTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACCTCGTCATTTATATTAG
GTATATATACGTGTTTATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCAGACTTCACAGTATTTTTAAATGAATTACATTGCATTGGGGAAAT
ATAAATAGTAATGTCCTTTTATAGAGGAAGTCTAAAAGAAATTCCTTGGGTGAATTGATAA
TCAAACATTTTAAAGAAGGTATATTTGCTAGCAAAGAAAGAAAAAATATGACAGCTTATT
TATATANAAAACCTATGTATTCTGGGATTTTTCTTTGTTTCAAGNCTGGATATGAATATC
ATGCTATCCCTTCCCC

Sequence 5817

TTTTTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACCTCGTCATTTATATTAG
GTATATATACGTGTTTATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCAGACTTCACAGTATTTTTAAATGAATTACATTGCATTGGGGAAAT
ATAAATAGTAATGTCCTTTTATAGAGGAAGTCTAAAAGAAATTCCTTGGGTGAATTGATAA
TCAAACATTTTAAAGAAGGTATATTTGCTAGCAAAGAAAGAAAAAATATTGACAGCTTAT
TTATATAGAAAACCTATGGATTTCNGGGGATTTTTCTTTGTTTCAAGNCTGTATAATGAANA
TCATGGCTATCCCTTCCCCCNGCNTTAATTAATNCTANAAGGTCCTCTNCGNGGGGGGGG
CCCCGGACCCAANNTTTGGTCCCCTT

Sequence 5818

TTTAAAAAA
AANAACNCAGCTTTTTTTTTTTTTTTANCCANGGGNGGACAAAAAATTNAATNCCNTCACT
ATNTTTTCGNNGGAAAAACNNAAAATTATNGCCANNTTAGGGGANGCCCNCCCNANNAG
GANCCCNCGTNAATNAATTNNAAAAGNCCNCTCGNGGGGGGGGCCCCG

Sequence 5819

AGTGCAGNGGCACNATTTTCGGCTNACTGNAACCTNTGCCTCCNAGGTTNAAGCAATTNTN
TGCTNAGCTGCCCNAGTAGCTANATTNACAGNGCCTGCCACCACACCCAGCTAATTTT
TGTATTTTNAGNAAANACGGGGTTNACCATNTTGGCCAGGCTGGTCTTGAACCTCCTGAC
CTNTTNATCCATCCACCTAAACCTNTAAAAGNGCTGGGATTACAGGCGTNAACCACCGNG
TGNGGCTGGAACNTNTTTTTTAAACTATCAAATTTTATGAGGCTTATTCATATCACG

Table 1

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ANACAGCATGATAAAAAAGTGCCCCCATGATTNAATTACCTCCCCTGGGTCCCTCCTA
CAACATGNGGNAATTNAANATNANATTTGGGTGGGGACACAGCCAAGCCACATNATTCCA
CCCCCGGCC

Sequence 5820

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGCTGAATTTATTATAATCCTTTTTTTTTTTT
TTTTTTAAAGATGGAATCTCACTCTATTGCCCAGGTTGGAGTACAGNGGCGCAATCTCGG
CTCACCGCAACCTCCGCTTTCCACCTCCTGGGTTCAGNGATTCTCCTGCCTCAGCCTCC
CTAGTAGCTGGGATTACAGGCACATGCCACCATGCCAGCTAATTTTGTATTTNACTAN
ANANAAGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGNGATCCAC
CCACCTCAGCCTCCCAAAGNGCTGGGATTANAGGCGTGAGTCACTGCACCCAGCATAATC
CTCTTTCTTAAACANAATTATTTTNATTTNATTTGGATTTTCTATTTNACTTACTTTAC
TCTTTATGATCTTTAATATNGGAGTTACATTCAACATGACTTTATGCATTAAAATTATTT
TTCATTGGCAATCAAATAT

Sequence 5821

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTGGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGC
TGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAG
AAAAACATTTAAATTGTGCTCATAGTGAACTGAGAGGTGACCACTCTTAATATTTTGTG
GCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCA
TTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATAGTATCCTATTATATTGATAA
TACCATAATTTACCTAACCCATTTTTATATATTTGGATTTTTTCCAATTCATCATTATTA
TGAATAATGGTGTATCTCAGTGGTTATTACTTTGCACTGCATTTCTTATGAAAGTATTGA
GTAAAAGGAAGTAAAGCCCTCTCAGAGTGTTTTGTAGGCTGTCACATTTCACTCCATAAT
GGCCTAGTGTTTGGTGCCCCCAGTGATATATGAANGTACCCACTGAAATGTCCACACCTT
TTTGGGTTCCTTTTTTAAAATAAAAAATTAA

Sequence 5822

GGCTGAGATCTTCTTATTCAACCCATATCAATTTGACTGGACTTGTAGCATTCAAATATT
AACACAGATTTCAAATTTTAGAAAGATATTTGTACTAGAATCTTGTGAGGTAACCTCTGTG
GTATTTCTATTAGTATGGAAATTGTTTATAAAGACACACTCTGAATTTTTGTGGTCAAGT
AGGGTTTGTAGAATCTTTGATAGCCCAGCATGTTAAATGTAAATGTTCTAGAAAAATAA
TCTTTCACTTTCCCTGTGAAAAGACCCCGCAAAAAGTTTTTTGAGGGGTGTGTTAAATAT
ATAAATTTTGAAAGACGTAGACAAAATAGTTAACTATCTACTTATGATATTTAATAAGTT
TGGCCAGGCATGGCAACTCATGCCTGTTGTAATCCCAGCGTATTGGGCCGGCTGAGGTAG
GAGGGATTGTGTGAGCCCAGGCGTTTGAGACTGCAGTGAGCTATGGATCCTGCCTGGATG
ACAGGGCAAGACCCCAAGTCAAAAAAAGTAATTGTTTAAATGAACATTTAAAAACCN
CATTGGTTGGAATAATGTGNGGTTAAAAAAT

Sequence 5823

TTTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGTTTAATTNAATTTTTTTTTTTTTTTTTTTT
NNNNNNNAAAAANNANGGGGGGTTTTACCANTTTTATTTTNAAACTTTNATGTTTGNTTT
TTGNCTTTTGNNGNAAAAATTCCGGTAAAATTTTGGTGCTNGAAANCCCCCGTTCAACN
AAAAATNAAAAAACCAANCNTNCCGTTGCCAAAACTTTAAATTTGNNTTNAAAAANA
AAANTTCNTTTTGCCCNGTGCANTTGCCACNAACCTTTGGCTTTTTNAAACAAAAAAAT
TCAGNANTTNTGCCTTTGCCCCATTAAAGAAAAAANAAGNGGTNCNTTAAAGGCCCCCG
CNTTAATTTAATTTTAAAAAATCTTTTTTAANGG

Sequence 5824

NGGGGAATTATTATTAAATGGAGAAAAAATCCACGTTGTNTACAACATTTCAAAACAG
AAAGTTAAATCATTAATAAGTACTTTTTATTAAATGTTTATAAGGCAGATCTATGAGAA
ATGATAGAAAACCATGGGTGGGGTAATTTGGATAGCCAATATTTTGGGAGATTACNGGA
GTTTTAGTAATTCCCAATTACCCCGTTAAAAAGAAGATAATTTTNTTCCAAGCCCGATT
CCAAATATCTAATGAAAGGATCAAGGCNCGGAAATGAGTNTTACTAATTGGCCAATGG
GAAATCAAT

Sequence 5825

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTGG
GGATGCTCAACCTATAATACCCAAAGGCTCTATTTTCAGTAGAATTTATTGGTTTGCTGAT
TATAGCAGTGACATAGTTGCATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAA
ACATTTAAATTGTGCTCATAGTGAACTGAGAGGTGACCACTCTTAATATTTTGTGGCAT
AAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAA

AATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTT

Table 1

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TTTTTTTTTTTTTTTTTTNGAGGAAGGCACCTACAAAACGAAAGTGCCTAGGGCTTACAAA
AGTCATATGTAGCCTTTACAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTA
TCATTTTANAGATGAGGAACTGAAGCTNAGGGAGGCTAAGGAACTTATCCAAAGCCTC
TTAAGAGGCTATGTTAGTCANACTGGGCTAACAGCTGTAACAACCCCANAAATTTAAATGG
CTTAACACATTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGGTGTATGTTTGGCAG
GTAGTCTACNCAGTGATTCAGGGACCCAGGCTCCTTCCCTNTGGNGGCTTTTTCTCCCTC
TAGTTGCTGGGAGCTCTCCATGCANATGGGGGATGGAGAAAGAGAACNAAAAGTGGGGGA
TT

Sequence 5834

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAGCAAACTCCC
GACAGCCGAGCCCCGTTTCGGGGCCTTTTCTTTTTTTTTTCTTTAATGGAGTGAAATCTAC
TTTGCTCAGGAAGCCTGCAAATCACATTTTCAGGCCAAACGAGGCANTNTTTTANAAGGG
GTCGCTGAGGCAGGAGTAGGAAGGCTTTTCCACTCCACTCACNCATTTTCAGTGTAGGCG
AATCGTAAAACGGAGGGCAGAACGAAAATGAGCGGATCTGGGAGTGCAGGCTGCGCTTCG
TCCCCCGNGTTAATTAATTCTAGAAGTACT

Sequence 5835

AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTNGANACANAGTTTGTCTNTTGTACCCAGGCTGGAGTACAATGGCACA
ATCGCGGNTCACTGCAACCTCCACCTCCCGGGTTNAAGNGATTNTCCTGCCTCGGCCTCC
TGAGTAGCTGGGATTACAGGCACCTGCCACCATGCCTGGCTGTTTTTCANATTTTGTAGTA
AAAACGGGGTTTCACCATNTTGGCCAGGCTGGTNTTGGAGCTNGCGACCTNANGNGATTTCG
CCCACCTTANNCTNCCAAAGTATTGGGATTACAAATGTGAGCCACTGTGCCCCGGCACTT
TTNTGCTTTTAAATACAATGATTTTAAAAAGTNTTGTATATNAAACTTTGGGCTTGGGNC
CTAAATATCCCANNTGGTGTGTAGGGAGCCCCNTNTNTTATTTTGCNAGGGGGATCCCATT
TANNACCCAAGGGANANTTAANAATCCAGCNCCTTTNTCCC

Sequence 5836

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGGAGACAGGGTTTTGACATGTTGGTCAGGCTGGTCATGAATCCTGGCCTC
AAGNGATCCACCTACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCGC
CCAACCCTGTGTTTATTCTTAGGTCTGTACTACGCTTTATGCCTCAAGTTTCCACAGGTA
AAACACGTTATTTTATTCTCACGTTATAGGAGCAATTTGTATTCATAAAC

Sequence 5837

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTNT
TTTTTTTTTTTTTNGGATTCATANAAAGACTTTTATCTATTGNGCAAAGAGAGGGNCANCT
GGCTCCCCANAAGGNTCTCAACCCCATCAAGACTGTCCATT

Sequence 5838

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
ATTNAAGGNAGTGGGTGTTGAGCTTGAACGCTTCTTAATTGGTGGCTGCTTTTAGGCCN
ACTATGGGTGTTAAAATTTT

Sequence 5839

GGNGGAAGGCNCCTACAAAACGAAAGTGCCTAGGGCTTACAAAAGNCATATGTAGCCTTT
ACAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAGAGA

Sequence 5840

ACACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTGGANACAGGGTCTCACTNTGTCACCCAGGCTGGAGTGCAGNGGCGCAATC
TCAGCTCACTGCAGCCTNTGCCTCCCAGGTTCAAGCGGTTCTCCTGCCTNAGTCTCCCGA
GTAGCTGGGATTACACCACCACACCTGGCTAATTTTTTGTATTTTGGGTATAGACGGGT
TTTCGCCATGTTGGCCAGGCTGGTGTCAACTCCTGATCTCAAGTGATCTGCCAGCCTNNG
CCTCCCAAAGNGCTANTACAGGCGTGAGCCACCACGCCTGGCTTAGGCTGCTTAAAAANT
CTTTCTTAGGTATCCTTGGTTTTGGAAAAAAAAGAATAACAGAAACTAAAAATTCCCA
GTGGCAGTCTNTGTATCACTGGAATTTAA

Sequence 5841

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTNG
AGNGAATGAATTTAATATAATCTCTATAAAAACCCTAATCACACAGTTTTTTACAGAAA
TATAGTTTATTTTTTTTTTTTTTATTTTTTTTTANATGGAGTCTCACTCTATTGCCAGGCTGG
AGTGCAGTGGCTGTAGTGGCCTGATCTCGGCTCACTGCAACCTCTGCCTNCCGGATTCAA
AGTGATTCTCCTGCCTCANCTNCCGAGCAGCTGGGAATACAGGCACCCGCCTTAATTAA

Table 1

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TTNTAGAAGTACT

Sequence 5842

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTAAGACGGAGTCTTGCACTGTCGCCTAGGCTGGAGTGCAATAGTGCGATCTTGGC
TCACTGTAAGCTCCACCTCCGGCGTTACGCCATTCTCCTGTCTCAGCCTCCCGAGTAGC
TGGAATTACAGGCTCCCGCCACCACGCCCGGCCTTTTTTTGTATTTTTTTAGTANAGACA
GGGTTTTACTNTGTTGGCCAGACTGGNCTTNAACNTCTGACCTCGTGATCCNNCTGCTTC
GGCCTCCCAAAGTGCNTGGGATTACAGGTGTAAGCCCACACGTGCCCCGCCTNAAATTA
AATTCTNGAAAGTACTCTCCAGGGGGGGCCCGGNNCCAGNCTTTTGTTCCCTT

Sequence 5843

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGNACAAATGCTTTT
ATATTCAGCCCCGTGTAAGCCATCANATGTTTGAAAGTTGTTAAACACCAACCAAAGGGT
TTAATTTTAANAACCTTAGCTAGGAATGGGTGAAATCCTACCCAATTAANAGGAGTTCTGC
AAATTATTAACAAAGTGTAATAATGAA

Sequence 5844

ATCGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTGNAAGNANATTGTTTNTGNTAGGCAATATAATCNGCTAATGGGACA
GTTTCCCTGTAACAATGTGTANCAAACTCTGCANGATTAATGANAAGAATGTATTGCCT
TTGAAGCANCACCACTTGAGTAAAAANNCNNAATGGGCTNTATGTTATGCTAGTGGA
GAANAGCACCGGANGATATTTNTTGG

Sequence 5845

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGGAAGGCACCTA
CAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTACAAATATTAGCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGAACTGAAGCTCAGG
GAGGCTAGGAACTTATCCAAAGCCTNTTAANAGGCTATGTTAGTCANACTGGGCTAACA
GCTGTAACAACCCCANAAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCA
TAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGNNGATTGAGGACCCAGGCT
CCTTCCCTTTGGNGGCTTTTTCTCCCTNTAGNGCTGGGAGCTNTCCATGCAAATGGTGGA
TGGAGAAAGANAACAAAAGNGGGGGATTTTTATAGGCCAGGCCTGGAATTGGC

Sequence 5846

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTCTCTCTTTAGACAGAGTCTTACTCTGTCACCCAGGCTGGAGTGCAAGTAGTGC
AATNTTGGCTCACTGCAACCTCCACGTNTCATGTTCAAGNGATTCTGCTGCCTCAGCCTC
CTGAGTATCTGGGATTATAGGCACACACCACCATGCCCCGCTAATTTTTGTATTTNAGT
ANAGACTGGGTTTCACCATGTTGGCCAGGCTGGTCTGGAACCTCCTGACCTCATGATCTGC
CCGCCTTAATTAATTCTAGAAGTACT